



Albuquerque
Technical
Vocational
Institute

TVI
COMMUNITY
COLLEGE

2000–01 COURSE CATALOG

Albuquerque Technical Vocational Institute • Volume 35 • July 2000

WELCOME TO TVI

Introducing TVI	3
Graduate Job Placement	6

Welcome
to TVI

ADMISSION AND ACADEMIC POLICIES

Academic Calendar	8
Admission	9
Registration	12
Financial Aid	15
Academic Policies	18
Student Services	24

Admission and
Academic Policies

INSTRUCTIONAL DEPARTMENTS

Adult & Developmental Education	27
Arts & Sciences	29
Business Occupations	30
Health Occupations	32
Technologies	33
Trades & Service Occupations	34

Instructional
Departments

PROGRAMS OF STUDY

Listing of certificates, degrees and other instructional offerings (alphabetical)	36
Certificate and degree programs (by department)	40
Certificate and degree programs (accredited by outside agencies/organizations)	41
Program descriptions (alphabetical)	42

Programs
of Study

COURSE DESCRIPTIONS

Listing of adult education (non-credit) courses (alphabetical by course number)	132
Listing of academic (credit) courses (alphabetical by course number)	134

Course
Descriptions

GLOSSARY AND INDEX

Glossary of terms used at TVI	201
Index	204

Glossary
and Index



Main Campus
525 Buena Vista SE
Albuquerque, NM 87106-4096

Joseph M. Montoya Campus
4700 Morris NE
Albuquerque, NM 87111-3704

Rio Rancho Campus
State Road 528 and Sara Road
Rio Rancho, NM 87124

South Valley Campus
5816 Isleta SW
Albuquerque, NM 87105

Web Site: <http://www.tvi.cc.nm.us>
Switchboard: 505-224-3000



ABOUT THIS CATALOG

The TVI Catalog is a student's official guide to programs, courses and policies of Albuquerque Technical Vocational Institute.

The TVI Catalog is a summary of information of interest to students; it is not a complete statement of programs and policies. Other important information is published in:

- the Schedule of Classes;
- the Student Handbook;
- the Financial Aid and Scholarship Guidebook; and
- handbooks published by instructional departments and other offices.

Students are responsible for complying with the provisions of these documents.

Not all programs and classes listed in the Catalog are offered at all campuses or every term. If fewer than 12 persons have applied to begin a program, it may be canceled that term. After a program begins, no required class will be canceled, regardless of enrollment, although support classes may be canceled due to insufficient enrollment.

Information in the Catalog is subject to change.

This Catalog is available in alternative formats from the Special Services office at Main Campus. It is published on the TVI home page, www.tvi.cc.nm.us.

INTRODUCING TVI

Now in its third decade, Albuquerque Technical Vocational Institute is an accredited community college offering courses in a variety of occupational, college transfer and adult/developmental education subjects. In 2000–01 TVI's programs include:

- certificates in 44 business, health, technologies and trades occupations, as well as short-term occupational courses;
- associate degrees in 38 occupational fields and liberal arts;
- college transfer: courses in pre-management, pre-engineering, other occupational subjects and 27 liberal arts disciplines transferable for freshman and sophomore credit at four-year institutions; and
- adult/developmental education: basic skills (including English as a second language and GED exam preparation) and remedial, preparatory and developmental classes for students preparing to meet admission requirements at TVI or other institutions.

Other TVI programs include customized training and assistance to small business (through the Workforce Training Center, 272-7970), workshops and support for learners over 50 (the Emeritus Academy, 224-5501) and concurrent enrollment for high school students (Recruitment Office, 224-3162).

TVI is accredited to grant certificates and associate of applied science, associate of arts and associate of science degrees by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. In addition, specific programs have accreditation or approval by appropriate agencies (see page 41).

TVI Governing Board

Ruth L. Connery, Chair
Blair L. Kaufman, Vice Chair
Carmie Lynn Toulouse, Secretary
Richard Barr
Pauline J. Garcia
Penelope S. Holbrook
Robert P. Matteucci

Michael J. Glennon, President

Mission, Vision, Values, Goal

Mission

Albuquerque Technical Vocational Institute (TVI) promotes and provides higher education, skill development and workforce training relevant to contemporary needs within the district and the state of New Mexico.

Vision

Albuquerque Technical Vocational Institute is a progressive community college where students achieve goals and meet change.

Values

Albuquerque Technical Vocational Institute values people, excellence, integrity, diversity, responsiveness, results and the community.

Goal

The overall goal of the Albuquerque Technical Vocational Institute is to raise educational levels and to exceed student, workforce and community expectations.

To achieve this, TVI will:

- Encourage and support students by offering the best opportunities for occupational and workforce training, certificates, associate degrees, transfer credit, skill development and continuous learning.
- Respond quickly to community needs by promoting and maintaining program quality and relevant curricula to support economic development.
- Encourage and support faculty and staff in their roles and offer opportunities for growth, professional development and recognition.
- Meet change through innovation and technology.
- Foster communication, cooperation and collaboration within TVI and between and among other educational institutions as well as the community.
- Ensure that TVI is welcoming, friendly and service-oriented to attract and retain students.
- Provide affordable and accessible education.
- Respect and promote diversity.
- Develop, improve and maintain physical resources at TVI to facilitate learning.
- Maintain fiscal integrity and responsibility.
- Provide accountability through an ongoing system of evaluation, analysis and adjustment.

HISTORY

Authorized by the New Mexico Legislature in 1963, the Albuquerque Technical Vocational Institute was approved by district voters in 1964 to provide adults with skills necessary for success in the world of work. The first nine classes, for 155 students, were held in the summer of 1965 in surplus barracks and a vacated elementary school.

From the first, TVI's priority has been job training, broadly defined to include preparatory work, skill improvement for adults, vocational courses for high school students and, in recent years, liberal arts and college transfer. Today's job training programs are offered in business, health, technologies and trades subjects, with emphasis on up-to-date, hands-on skills needed by local employers. Internships, co-op programs and apprenticeships are available.

TVI was accredited by the North Central Association of Colleges and Schools in 1978. The first college-prep course, MATH 100, was offered in 1985. Degree-granting power was approved for TVI by the Legislature in 1986, beginning the transition to a community college. By the late 1980s, liberal arts was not only TVI's fastest growing component but also an increasingly important part of occupational instruction, and the University of New Mexico had arranged to offer all its remedial courses through TVI.

Until 1979, TVI was part of the Albuquerque Public Schools, with the APS Board of Education serving as the TVI Governing Board. The first election for an independent TVI board was held in September 1979, following approval by the Legislature. In 1994, the Legislature approved districting the Governing Board.

TVI TODAY

With an enrollment of about 23,000, TVI is the second largest postsecondary institution in New Mexico. The Main Campus occupies 60 acres near downtown Albuquerque and the 42-acre Joseph M. Montoya Campus is in the Northeast Heights. Classes also are offered at the Rio Rancho Campus, the South Valley Campus and at the University of New Mexico, as well as various off-campus sites. Plans are being made for a permanent West Side presence.

TVI's classrooms, libraries and laboratories are modern and comfortable. Each student has access to state-of-the-art equipment, especially computers. TVI programs, facilities and services are accessible to the disabled.

Advisory committees from local businesses help assure that TVI students acquire the skills needed for success on the job, and TVI helps graduates find jobs. The Institute also cooperates with other two- and four-year schools on course articulation and student transfer.

TVI's Governing Board members are elected by voters in seven geographical districts within the Institute district, which includes all of Bernalillo County and part of Sandoval County.

Funding for TVI programs and most construction and equipment comes from a property tax levy in the Institute district and annual appropriations by the New Mexico Legislature. Tuition and fees are moderate, and financial aid is available to many students. Private contributions through the TVI Foundation are increasing every year.

TVI's academic year is divided into three terms: fall (begins in September), spring (begins in January) and summer (begins in May). Short sessions and non-traditional schedules are available for some programs and courses. Most programs admit beginning students each term.

ASSESSMENT

Albuquerque TVI, in compliance with the North Central Association's Commission on Institutions of Higher Education, regularly conducts assessment of its instruction. Assessment of student academic achievement is an effort in each of the instructional departments which evaluate their success in fulfilling both course and program objectives. Toward this end, students may be requested to participate in forums, portfolios, testing or surveys that help the departments measure student success or satisfaction.

Specifically, in attempting to measure student academic achievement, instructional departments are trying to better understand those circumstances that lead to student success and mastery of course objectives and program goals. In applying measurement tools, departments gain knowledge and experience that help them continue to do things well or improve instruction where weaknesses are found.

GENERAL EDUCATION

The Albuquerque Technical Vocational Institute, a community college, provides basic, occupational and general education for a population that includes a broad spectrum of ages, cultural backgrounds and intellectual abilities. The Institute is committed to general education and related courses as an integral part of certificate and associate degree programs. The general education courses include mathematics, communication skills, social and natural sciences, humanities, foreign languages and fine arts. It is believed that general education enhances students' personal and professional attitudes, habits and skills as they pursue lifelong continuum of learning.

In certificate programs, related education courses cover competencies in communication, math and human relations to better prepare students for the world of work.

In associate degree programs, students are required to complete a minimum of 15 semester credit hours of general education in addition to courses in their major field of study. The required general education courses have been selected to enhance students' personal and professional habits, attitudes and skills. These courses are chosen to increase students' abilities to understand and participate more effectively as members of the community and to give breadth to their chosen careers.

The general education courses in the transfer liberal arts degree reflect the common requirements of the state's six universities and approximate the universities' core curriculum in the freshman and sophomore sequence.

DISTANCE LEARNING

An increasing number of TVI credit courses are offered in innovative distance-learning formats designed to overcome barriers of time or space. Some courses are available through correspondence, some are taught over the Internet, some are shown on television and others use audio and video links to two or more classrooms. Printed materials and interaction with the instructor (in person, by telephone or via electronic mail) are available. Fees are charged for Distance Learning courses (see page 15). More information about Distance Learning is available at 224-3316 and on the home page at <http://ocean.tvi.cc.nm.us/distancelearn/>.

WORKFORCE TRAINING

TVI's Workforce Training Center was founded in March 1996 to foster and enhance economic growth and development in New Mexico. Organized under the Division of Instructional Services, the Workforce Training Center serves the greater Albuquerque metropolitan area as well as other regions throughout the state.

The center serves a diverse group of individuals and organizations, including:

- employers seeking to improve the skills of their workforce;
- public and private agencies, particularly those assisting welfare-to-work recipients, dislocated workers and adults;
- professional associations needing training for members who are preparing for certification or licensure;
- adults wanting to upgrade their job skills; and
- entrepreneurs, including small business owners and others considering starting a business.

The center offers five distinctive services:

- 1) performance enhancement consulting;
- 2) customized training;
- 3) open-enrollment workshops and seminars;
- 4) assessment services; and
- 5) business consulting and resource referrals through the Small Business Development Center, which is designed to help "grow" small business in New Mexico.

The Workforce Training Center's services—provided at reasonable cost—are developed as needed throughout the year and on a rapid-response basis. Services may be provided at the employer's place of business or at the center's new training facility in the heart of Albuquerque's growing I-25 industrial corridor (scheduled to open in fall 2000). For information, call 272-7970.

EQUAL OPPORTUNITY POLICY

The Albuquerque Technical Vocational Institute affirms that it will not discriminate on the basis of gender, race, color, national origin, religion, age, disability, sexual orientation or marital status in any of its policies, practices or procedures in accordance with applicable federal, state and local laws, nor will it condone any act of illegal discrimination or harassment on the part of its employees. This provision includes, but is not limited to, employment, admissions, testing, financial aid and educational services.

The Institute confirms that the above provision by its reference to applicable federal, state and local laws prohibits and condemns any retaliation of any kind against any employee engaging in the exercise of free speech or in activities protected by federal, state or local laws.

Upon request, the Institute will provide reasonable accommodations to individuals with disabilities with regard to conditions of employment as provided by applicable federal, state and local laws.

Any person who wants to file a complaint based on these laws should contact the equal opportunity officer in the Human Resources Office, 224-4600.

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, TVI provides notice that no qualified individual with a disability shall, on the basis of the disability, be excluded from participation in, be denied the benefit of, or otherwise be subjected to discrimination related to any of the institution's educational programs or activities.

If a student has concerns about TVI's compliance, he or she should contact A. Paul Smarrella in Special Services, 224-3259.

1998–99 GRADUATE JOB PLACEMENT

Additional information is available from Student Job Placement Services.

	Total Graduates	Could Not Locate	Not Seeking Employment	Continuing School ¹	Available to Work	Employed in Training-Related Job	Seek Training-Related Job	Percent Employed ²	Working in New Mexico	Average hourly Rate ³	Average Annual Salary ³
Business Occupations											
Accounting, Certificate	3	-	2	-	1	0	1	0%	-	-	-
Accounting, Degree	21	6	2	3	10	10	-	100%	10	10.32	\$21,468.33
Administrative Assistant, Certificate	4	1	-	1	2	2	-	100%	2	9.08	\$18,886.50
Administrative Assistant, Degree	25	3	5	1	16	16	-	100%	16	10.10	\$21,014.67
Bookkeeping, Certificate	6	1	2	1	2	2	-	100%	2	7.00	\$14,560.00
Business Administration, Certificate	8	2	1	3	2	2	-	100%	2	15.85	\$32,968.00
Business Administration, Degree	35	10	4	2	19	18	1	95%	17	9.67	\$20,106.00
Business Graphics/Communication Degree	1	-	-	-	1	1	-	100%	1	9.75	\$20,280.00
Court Reporting, Degree	1	-	-	-	1	1	-	100%	1	10.50	\$21,840.00
Food Service Management, Certificate	4	3	-	-	1	1	-	100%	-	-	-
International Business, Degree	2	1	1	-	-	-	-	-	-	-	-
Legal Assistant Studies, Degree	34	2	6	4	22	22	0	100%	22	10.04	\$20,885.00
Microcomputer Management, Certificate	1	1	-	-	-	-	-	-	-	-	-
Microcomputer Management, Degree	21	8	3	1	9	8	1	89%	8	11.82	\$24,577.67
Office Assistant, Certificate	1	-	-	-	1	1	-	100%	1	-	-
Pre-Management, Degree	36	10	3	12	11	11	-	100%	10	9.89	\$20,561.00
Sales and Cashiers, Certificate	9	1	1	4	3	3	-	100%	3	6.50	\$13,520.00
Stenotranscription Certificate	8	-	1	5	2	1	1	50%	1	-	-
Health Occupations											
Child, Youth & Family Devel, Degree	11	3	2	2	4	4	1	100%	4	7.29	\$15,163.00
Clinical Laboratory Assistant, Certificate	6	4	-	1	1	1	-	100%	1	8.00	\$16,640.00
Healthcare Technician, Certificate	12	-	-	3	9	9	-	100%	9	9.19	\$19,115.00
Health Unit Clerk, Certificate	46	10	10	5	21	21	2	100%	21	8.28	\$17,219.00
Medical Lab Technician, Degree	10	4	-	-	6	6	-	100%	6	10.84	\$22,554.00
Nursing, Degree	95	21	1	2	71	71	-	100%	70	15.50	\$32,241.50
Nursing Assistant, Certificate	32	3	1	9	19	19	0	100%	18	7.15	\$14,856.50
Pharmacy Technician, Certificate	25	7	1	2	15	12	3	80%	10	8.20	\$17,045.00
Phlebotomy, Certificate	15	4	-	6	5	4	1	80%	4	7.69	\$15,996.00
Practical Nurse, Certificate	16	7	-	3	6	6	-	100%	6	11.15	\$22,755.00
Respiratory Therapist, Degree	18	-	1	-	17	17	-	100%	17	12.09	\$25,139.00
Surgical Technician, Certificate	13	4	-	-	9	9	-	100%	9	12.75	\$26,520.00

¹ Counted in Not Seeking Employment or Available for Work

² Percent of available graduates employed in training-related job

³ Based on 40-hour work week in training-related job

	Total Graduates	Could Not Locate	Not Seeking Employment	Continuing School ¹	Available to Work	Employed in Training-Related Job	Seek Training-Related Job	Percent Employed ²	Working in New Mexico	Average hourly Rate ³	Average Annual Salary ³
Technologies											
Arch/Engin Drafting Tech, Certificate	5	-	1	3	1	0	1	0%	-	-	-
Arch/Engin Drafting Tech, Degree	10	1	-	1	8	8	1	100%	6	13.05	\$27,144.00
Business Computer Prog . Degree	2	2	-	-	-	-	-	-	-	-	-
Computing Technology, Certificate	9	4	-	1	4	4	-	100%	4	12.24	\$25,443.00
Computing Technology, Degree	19	3	5	-	11	10	1	91%	8	13.55	\$28,184.00
Construction Management											
Technology Degree	2	-	-	-	2	2	-	100%	2	16.83	\$35,006.00
Design Drafting Engineering Tech, Degree	9	1	-	1	7	7	-	100%	7	11.93	\$24,821.33
Electronics Engineering Tech, Degree	3	1	-	2	-	-	-	-	-	-	-
Electronics Technology, Certificate	5	-	-	1	4	4	-	100%	4	15.89	\$33,040.50
Electronics Technology, Degree	39	10	1	1	27	22	5	81%	17	12.68	\$26,374.50
Manufacturing Technology, Certificate	4	-	-	2	2	2	-	100%	2	8.45	\$17,576.00
Manufacturing Technology, Degree	111	14	5	8	84	82	2	98%	77	12.73	\$26,488.00
Network Management Certificate	1	-	-	-	1	1	-	100%	-	9.00	\$18,720.00
Network Management Degree	1	1	-	-	-	-	-	-	-	-	-
Trades & Service Occupations											
Air Cond/Heating/Refig, Certificate	38	4	4	6	24	24	-	100%	21	11.55	\$24,017.00
Automotive Technology, Certificate	18	2	1	3	12	11	1	92%	10	9.56	\$19,882.00
Baking, Certificate	17	4	8	5	5	5	-	100%	4	7.41	\$15,541.00
Carpentry, Certificate	7	1	2	2	2	1	1	50%	-	14.42	\$30,000.00
Commercial Printing, Certificate	7	-	1	3	3	2	1	67%	2	7.37	\$15,336.00
Construction Technology, Degree	12	3	-	-	9	8	1	89%	8	12.58	\$26,173.33
Criminal Justice, Degree	20	7	7	2	4	4	0	100%	4	9.23	\$19,198.50
Culinary Arts, Degree	13	6	-	2	5	5	-	100%	5	7.65	\$15,912.00
Diesel Equipment Technology, Certificate	6	-	-	-	6	6	1	100%	6	9.33	\$19,415.83
Electrical Trades, Certificate	14	1	-	-	13	11	2	85%	11	9.25	\$19,230.33
Environmental Technology, Degree	7	1	-	1	5	4	1	80%	4	14.00	\$29,120.00
Fire Science, Degree	8	5	1	1	1	1	-	100%	1	25.00	\$52,000.00
Fitness Technician, Certificate	15	1	6	2	6	6	1	100%	5	21.83	\$45,413.00
Machine Tool Technology, Certificate	30	2	-	1	27	27	-	100%	25	12.92	\$26,883.33
Mechanical Technology, Degree	11	2	-	-	9	9	-	100%	9	15.25	\$31,718.00
Metals Technology, Degree	2	-	-	1	1	1	-	100%	1	12.50	\$26,000.00
Plumbing, Certificate	14	2	-	6	6	6	-	100%	6	15.77	\$32,801.50
Quantity Food Preparations, Certificate	15	11	2	-	2	2	-	100%	2	6.70	\$13,936.00
Transportation Technology, Degree	2	1	-	1	-	-	-	-	-	-	-
Truck Driving, Certificate	37	2	-	1	34	34	-	100%	26	12.91	\$26,845.67
Welding, Certificate	14	3	1	3	7	5	2	71%	5	13.28	\$16,898.00
Totals	1046	211	92	130	618	592	32	96%	553	n/a	n/a

2000–01 ACADEMIC CALENDAR

FALL TERM 2000

First day of instruction	August 28
Labor Day holiday	September 4
Last day to register; last day to change from audit to other grading option	
Full term classes	September 5
Short session classes	See <i>Schedule of Classes</i>
Midterm/graduation applications due	October 17
Last day to change to audit; last day to withdraw	
Full term classes	November 17
Short session classes	See <i>Schedule of Classes</i>
Thanksgiving holiday (no classes; offices closed)	November 23–25
Last day of the term (may vary; consult department)	December 13
Fall grades available on STARS	December 20

SPRING TERM 2001

First day of instruction	January 8
Last day to register; last day to change from audit to other grading option	
Full term classes	January 16
Short session classes	See <i>Schedule of Classes</i>
Martin Luther King Day (no classes; offices closed)	January 15
Presidents' Day (no classes; offices open)	February 19
Midterm/graduation applications due	March 1
Last day to change to audit; last day to withdraw	
Full term classes	March 30
Short session classes	See <i>Schedule of Classes</i>
Last day of the term (may vary; consult department)	April 25
Graduation	April 20
Spring grades available on STARS	May 2

SUMMER TERM 2001

First day of class	May 14
Last day to register; last day to change from audit to other grading option	
Full term classes	May 21
Short session classes	See <i>Schedule of Classes</i>
Memorial Day holiday (no classes; offices closed)	May 28
Midterm/graduation applications due	June 22
Independence Day holiday (no classes; offices closed)	July 4
Last day to change to audit; last day to withdraw	
Full term classes	July 20
Short session classes	See <i>Schedule of Classes</i>
Last day of the term (may vary; consult department)	August 4
Summer grades available on STARS	August 10

ADMISSION*

Admissions Office: 224-3160

The Albuquerque Technical Vocational Institute has an open admission policy that provides individuals the opportunity to enroll in the Institute's certificate or degree programs as well as individual courses. Students are considered for admission to TVI without regard to gender, race, color, national origin, religion, age, disability, sexual orientation or marital status. It is the policy of the Institute not to discriminate on the basis of sexual orientation, marital status or ancestry.

TVI's academic year is divided into three terms which begin in September, January and May. Students are urged to apply for admission at least two months before registration begins and may apply for any term up to one year in advance.

Most full-time students attend school year-round until they finish their programs. In most programs, it is possible to take a term off, if necessary. However, students who interrupt their programs may not be able to resume their studies at the time they want, because classes they need may not be offered every term. An interruption in enrollment may also mean a change in program and enrollment requirements upon the student's return.

GENERAL ADMISSION REQUIREMENTS

Any person wishing to apply for admission to TVI must meet one of the following criteria:

- be at least 18 years of age; or
- have a high school diploma from a U.S. high school, or
- have a General Educational Development (GED) diploma; or
- have completed the requirements of a home-based school program; or
- qualify under concurrent enrollment (see page 10).

Note: All students requesting entrance into a TVI program (major) must meet federal requirements for Ability to Benefit. To meet Ability to Benefit requirements, students must meet one of the first three criteria listed above or meet minimum placement scores on the Accuplacer or ACT exams. Some programs have additional requirements (see program descriptions).

ADMISSION STATUS AND PROGRAM OPTIONS

A student's admission status is determined by the student's primary goal for taking courses at TVI. Admission technicians, academic advisors and counselors are available to assist students with identifying and/or meeting their educational goals.

Certificate/Degree Status

Certificate/degree students have chosen a program of study and intend to earn a certificate or degree from TVI.

Students who have not earned a high school diploma or GED may be required, because of federal "ability to benefit" standards, to have minimum scores on TVI's Accuplacer placement test in order to enter a program of study.

Applicants may be denied admission to a program where health or physical condition can be dangerous to the applicant or others.

TVI offers the following types of certificate and degree programs (see page 36 for complete list):

- Occupational Certificate and Associate of Applied Science (A.A.S.) Degree Programs:** These programs prepare students to enter either skilled or paraprofessional occupations or to upgrade workplace skills and knowledge. These programs are not intended to transfer to bachelor's degree programs, although certain courses may be accepted at some institutions.
- Associate of Arts (A.A.) Degree Programs:** These programs are designed for transfer into a bachelor's degree program in liberal arts, social or behavioral sciences or a professional field with such disciplines as its base.
- Associate of Science (A.S.) Degree Programs:** These programs are designed for transfer into a bachelor's degree program in a technical, medical or professional field with such disciplines as its base.
- Verification of Completion:** A document issued by an instructional department to confirm skills developed upon successful completion of certain occupational courses.

*Admission is the process of applying and being accepted to TVI. Registration (see page 12) is the process of selecting courses, receiving a schedule of classes and completing enrollment at TVI. The following requirements and procedures do not apply to students taking Adult Education classes.

Non-Degree Status

Those who do not wish to earn a degree or certificate or have not yet chosen a major (degree or certificate program) are non-degree students. Students who enter TVI in non-degree status may request to change to certificate/degree status, declare a major and transfer credits earned in non-degree status by completing a Declare a Major form.

Students who enroll non-degree in certain occupational courses may be able to receive a verification of completion certificate (see above).

Note: Non-degree status will not satisfy eligibility requirements for financial aid, veterans' educational benefits or other assistance.

Concurrent Enrollment

The purpose of concurrent enrollment is to give high school students the opportunity to take TVI courses and earn TVI credit while still enrolled in high school. Students who wish to obtain an early start on their post high school education are encouraged to take part in this program.

Qualified high school juniors and seniors may enroll in non-developmental credit courses at TVI in the fall, spring and summer terms. Students enroll in non-degree status and earn college credit as well as credit toward high school graduation.

Students enrolled in the program are subject to all TVI regulations.

TVI has concurrent enrollment agreements with Albuquerque Public Schools, Belen High School, Bernalillo High School, Moriarty High School, Rio Rancho High School and several private schools.

Interested students should visit their high school counseling office, the APS Career Enrichment Center or any TVI admissions office.

APPLYING TO TVI

1. Applicants must complete an Application for Admission or Returning Student Update form. Forms are available in the Admissions Office at all TVI campuses. Forms may be mailed back to the Main Campus Admissions Office (525 Buena Vista SE, Albuquerque, NM, 87106) up to 30 days before the term begins; after that, they must be hand-delivered to the Admissions Office.

Returning Student: Any student who has previously attended TVI in certificate/degree or non-degree status and has been out for at least one term (summer term excluded) must complete a Returning Student Update form. Students who have been absent for more than one year will be required to complete a new Application for Admission.

New and Transfer Students: Any student who has never attended TVI in certificate/degree or non-degree status must complete an Application for Admission.

2. Students who have previously attended another college should have an official transcript from each college sent to the TVI Records Office for an evaluation of possible transfer credit (see below).
3. Most students are required to take TVI's course placement test, Accuplacer (see below).
4. Students should meet with an academic advisor at any TVI campus to discuss program selection and/or course placement.

Placement Tests

To ensure that students are prepared for the courses they want to take, many courses have entry requirements called prerequisites that must be met prior to registering. Prerequisites may be met with approved scores on the placement test, Accuplacer, or on ACT or SAT tests (taken at any TVI Testing Center), by transfer of credit from another institution or by successful completion of a specific course. (Also see page 12.)

Students may be exempt from Accuplacer testing if they:

- hold an associate degree or higher from an institution in the United States (these students may take courses for which ENG 101 and RDG 100 are prerequisites); or
- are non-degree students not enrolling in ENG or MATH courses and not registering for more than six credit hours per term (does not apply to concurrent enrollment students); or
- can provide proof of successful completion of previous college-level math and/or English courses.

TRANSFER OF CREDIT

Traditional Credit: Credits earned at other institutions by certificate or degree-seeking students at TVI may be transferred and applied toward program requirements in accordance with the following guidelines:

1. An official transcript from each institution must be sent directly to the TVI Records Office for transfer credit evaluation. (Transcripts should be requested from the records office at the institution(s) previously attended.)
 - a) Credit for arts and sciences courses earned at regionally accredited postsecondary institutions will be evaluated automatically upon receipt of the official transcript. Courses with D or better grades earned at public New Mexico institutions will be considered for

transfer credit; courses from institutions outside New Mexico and private institutions in New Mexico must have C or better grades to be considered for transfer credit.

b) To receive transfer credit for occupational courses, the student must request that the TVI's Records Office refer the transcript(s) to the department for review. An interview, demonstration of competence or both may be required before the decision regarding credit is made; demonstration of competence is required for all transfer credit which is at least 10 years old. Courses will be evaluated according to the occupational program to be followed at TVI and may be substituted for TVI requirements as approved by the department dean.

2. Remedial courses and upper-division courses are not generally accepted.
3. Students may appeal the decision on acceptability of liberal arts transfer credit. The student should contact the Advisement Office to begin the appeal process.

Non-Traditional Credit: Students may be allowed to establish credit based on prior training. Specific criteria for acceptance of occupational credit have been established by each instructional department. Students interested in this option should contact their department office.

Continuing Education Credit: Current students who completed credit courses in TVI's Continuing Education Division prior to the winter 1991 term may apply to have that credit transferred to their TVI transcript. Interested students must request, through the Records Office, that an official copy of their Continuing Education record be sent to the department in which the course was offered.

EXAMINATION CREDIT

TVI Challenge Exams: Challenge examinations are offered for some TVI courses. Exams are available to applicants and currently enrolled students who wish to establish TVI credit for prior education, training and/or experience. The fee for most exams is \$15. The following restrictions apply:

- A student may attempt a challenge exam only once per course.
- A student may not take a challenge exam if, within the last 10 years, he or she enrolled in the course at any school; enrolled at TVI in the full term class after the 15th day of the term (including Saturdays); enrolled in the short session class after the 3rd day of the session (including Saturdays); enrolled in the 12 week session class after the 5th day of the session (including Saturdays).
- A grade of CR will be recorded upon the student's completion of TVI credit coursework in the same or subsequent term.
- Courses successfully challenged may count toward graduation, but not the residency requirement.
- Challenge exam credit may not be accepted by other postsecondary institutions.

AP/CLEP Exams: Students may earn credit through Advanced Placement (AP) and College Level Examination Program (CLEP) tests. Details are available in the Student Handbook and in advisement offices.

COURSE SUBSTITUTIONS AND WAIVERS

A course for which a student has already established credit may substitute for another course if allowed by the department offering the course for which substitution is requested. If the substitute course has fewer credit hours, the difference must be made up. A required course may be waived if the student has earned credit in a similar but not equivalent course and/or through training or work experience. The student must make up the waived credit hours.

REGISTRATION

Registration Office: 224-3214

Students are required to register for each term they plan to attend. Registration and payment of fees must be made in accordance with the instructions published in the Schedule of Classes. Individuals may not “sit in” on classes for which they are not enrolled.

Registration for new and continuing students begins approximately two months before the start of a term. Registration information is mailed to continuing students; all other students are given registration information at the time of admission.

Registration continues through the fifth day of the term for full-term classes and through the third day for short-session courses.

REGISTERING AT TVI

1. Obtain a Schedule of Classes, which is published prior to each term and is available in the registration offices at all campuses. The schedule includes registration information and instructions, course dates and times, and payment information.
2. Academic advisement is strongly recommended for all students before registering for classes. Academic advisors (in the student services areas of all campuses) provide assistance with course selection and placement.
3. New student orientation sessions inform new and returning students about TVI’s services, programs and registration process. Students who have never attended a college or university in the United States are required to attend a TVI orientation before registering for classes. Information about orientation sessions is in the Schedule of Classes.
4. Register for classes using the step-by-step instructions in the Schedule of Classes.
5. Pay tuition and fees. Upon registering for courses, students receive a registration invoice. Charges are based on the student’s residency classification for tuition purposes, the number of credit hours and the type of courses (see page 14). In order to complete registration, all charges must be paid. Payment deadlines are printed in the Schedule of Classes each term. Failure to pay all charges in full may result in the deletion of the student’s schedule.

COREQUISITES AND PREREQUISITES

Pre- and corequisites are listed in course descriptions and are subject to change with each new Catalog. It is the student’s responsibility to meet the pre- and/or corequisites in effect for the term in which a course is taken, regardless of the Catalog under which the student

entered or will graduate. Students may be barred from enrolling or may be disenrolled if pre- or corequisites are not met.

Corequisite: A corequisite is a course which is either recommended or required to be taken in combination with another course. If a course with a required corequisite is taken for audit, the corequisite also must be taken for audit. When a course which has a required corequisite is dropped, the corequisite must also be dropped.

Prerequisite: A prerequisite is a requirement which must be successfully completed before a student may enroll in a course. A student who receives a W, AU, I, NC, PR, D or F as a final grade may not enroll in any class for which the former is a prerequisite. A recommended prerequisite is one which is strongly suggested for successful completion of the course but is not required.

Most entry-level courses have prerequisites for math, English or reading. Students who have completed course prerequisites may be required to provide proof through transcripts or test scores. Students who do not meet course prerequisites may enroll in preparatory courses in Developmental Studies.

Alternatives or equivalents to meet entry-level course prerequisites are published in the Schedule of Classes. ACT, SAT and ASSET scores may not be more than five years old. Accuplacer scores may not be more than two years old.

REGISTRATION INFORMATION

Adding, Changing, Declaring Majors: Students may add, change and/or declare a major (program) at any time during the term in which they are enrolled. In order to graduate with a specific major, students must either declare a major at the time of admission or complete a Declare a Major form in the advisement office prior to submitting an application for graduation.

Adding Courses: Most courses may be added or sections changed through the sixth day of full-term and 12-week classes and the third day of short-session classes. Students may enter most open-entry courses through the tenth week of a full term and the eighth week of the 12-week classes. Registration deadlines and instructions are in the Schedule of Classes.

Cancellation of Enrollment Before Term Begins: If a student is not able to attend TVI when planned but has registered for classes, the student must cancel his or her registration at any registration office or through STARS before the beginning of the term. All fees are returned if

registration is canceled before classes begin.

Course Load: The normal course load each term is 12 to 18 credit hours, 12 constituting a full load. Students wishing to take more than 18 credit hours must meet the following conditions:

- have a cumulative TVI grade point average of 2.5, and
- have no grade lower than C in the previous term, and
- secure permission from the Advisement Office.

No student may take more than 22 credit hours per term.

Course Repetition Limit: A course may be repeated twice, regardless of grade option. A student wishing to repeat a course more than two times must obtain approval from the department dean's office. Topics, problems, internship and cooperative education courses, as well as physical fitness courses and full-term courses dropped prior to the 15th day of the term, are exempt from the course repetition limit.

Dropping Courses or Withdrawing: Full-term courses may be dropped through the 12th week of the term, 12-week summer courses through the 10th week and short-session courses through the mid-point of the course. Full-term courses dropped on or before the 15th day of the term (including Saturdays) do not appear on the student's TVI transcript. A W grade will appear on the student's record for full-term and 12-week courses dropped after the 15th day and for all short-session courses dropped on or after the first day of the session.

Students should not assume they will be dropped from their courses for non-attendance. Students who have not officially dropped a course will receive a final grade in the course. Drop and withdrawal deadlines are in the Schedule of Classes.

Grade Options: Students must select a grade option when registering for class (see page 18).

Permission to Enroll: Students may enroll in some courses only by permission of the instructor or program director. Forms are available in the department offices and most advisement offices. A Permission to Enroll does not constitute a waiver of a course, grant credit for another course or allow a course to be overfilled.

Stepups or stepbacks: Students may, with department approval, step up or step back into most developmental courses through the second week of the term and into some lower level occupational courses (in the same discipline) through the fifth week of the term. Students may, however, step up or step back into a self-paced, developmental math course through the tenth week of a full term and the eighth week of the 12-week session or term. Students who are having difficulty in a class and are considering this option should contact the instructor or an academic advisor.

RESIDENCY CLASSIFICATION FOR TUITION PURPOSES

Residence requirements for tuition purposes are established by the New Mexico Commission on Higher Education. A brochure detailing residency requirements and restrictions is available in the Admissions and Records offices.

A student is classified as a resident or non-resident for tuition purposes based on information supplied at the time of admission or readmission. A new or returning student with questions about his or her residency status should contact the Admissions Office.

A continuing non-resident student who has satisfied requirements for New Mexico residency may file a Petition for New Mexico Residency in the Records Office. Residency petitions will be accepted through the 15th day of each term (including Saturdays). All requirements for residency must be met before the first day of the term.

In general, to become a legal resident of New Mexico, four basic requirements must be satisfied:

1. **The 12-Month Consecutive Residence**

Requirement: A student must physically reside in New Mexico for the 12 consecutive months immediately preceding the term for which the petition is submitted. Note: Students whose parents or guardians reside out of state cannot begin to complete the 12-month requirement until their 19th birthday.

2. **The Financial Independence Requirement:**

Students cannot be approved for residency if they are financially dependent on their parents or legal guardians who are non-residents of New Mexico. At the time the student applies for residency (if under 23 years of age), a copy of his or her parents' or guardians' 1040 or 1040A U.S. income tax form for the previous year may be required.

3. **The Written Declaration of Intent Requirement:**

The student must sign a written declaration of intent to relinquish residency in another state and establish it in New Mexico.

4. **The Overt Act Requirement:** Residency regulations require the completion of several overt acts which support the student's declaration of intent to become a permanent resident. Information on the number and type of required overt acts is available in the Admissions and Records Offices.

Note: Any act considered inconsistent with being a New Mexico resident—such as voting, securing and/or maintaining a driver's license and automobile registration in another state—will cause in-state residency status to be denied or revoked.

Other Residence Regulations

The spouses and dependents of persons who move to New Mexico to work full-time, practice a profession or conduct a business full-time (and who provide appropriate evidence) are not required to complete the 12-month residence requirement before applying for resident status. They must, however, satisfy the other requirements of residency.

Members of the armed forces stationed on active duty in New Mexico, their spouses and dependents are eligible for resident student rates. A certification form is required for all new and returning students.

Active participating members of the New Mexico National Guard are eligible for resident student rates. A certification form is required for all new and returning students.

Non-citizens who are lawfully in the United States and have obtained permanent status from the Immigration and Naturalization Service or non-citizens who serve on active duty in the armed forces of the United States may establish residency by meeting the durational and intent requirements. Any non-citizens on other visas (student, diplomatic, visitor or visiting scholar visa, including spouses and dependents) are non-residents for tuition purposes.

Persons 65 years of age and older who move to New Mexico for retirement, as well as their spouses and dependents, or those who provide evidence of formal retirement shall not be required to complete the 12-month durational requirement. They must, however, satisfy the other requirements of residency.

An individual married to a legal resident of New Mexico who provides evidence of marriage shall not be required to complete the 12-month durational requirement but must satisfy all other requirements.

All enrolled members of the Navajo Tribe who reside on the Navajo Reservation, as certified by the Navajo Department of Higher Education, will be assessed in-state tuition rates.

TUITION AND FEES

Checks submitted for tuition and fees must have the student's ID number (usually the Social Security number) written on them. If the student prefers not have the ID number on the check, he or she should pay in cash or by credit card. Authorized agencies that have agreed to pay a student's training expenses are billed by the Institute.

Tuition is charged according to a student's residency status and the number and type of credit hours carried. Special tuition rates do not exist for non-resident part-time students or non-resident students enrolling in the summer term.

Tuition rates for 2000–01 (subject to change without notice) are:

Arts & Sciences Courses

New Mexico residents: 1 to 11 credit hours and more than 18 credit hours: \$33.00 per credit hour; 12 to 18 credit hours: \$396.00

Non-residents: 1 to 11 credit hours and more than 18 credit hours: \$91.40 per credit hour; 12 to 18 credit hours: \$1,096.80

Occupational and Developmental Courses

New Mexico residents: none

Non-residents: 1 to 11 credit hours: \$91.40 per credit hour; 12 to 18 credit hours: \$1,096.80

Senior Citizen Discount: Senior citizens qualify for a reduced tuition rate of \$5 per credit hour, up to six credit hours per term. The tuition discount applies only to Arts & Sciences courses. To qualify, the student must be age 62 or older prior to the beginning of the term and must be classified as a New Mexico resident for tuition purposes.

To receive the senior citizen discount, eligible students must go to the Records Office at Main Campus or the Admission Office at the Montoya Campus and complete a Senior Citizens Tuition Discount form. The discount form must be approved by the tenth day of the term.

Note: The discount does not apply to Adult Education classes, workshops and other non-credit courses, or to occupational or developmental courses.

FEES

Some courses have required fees (see course descriptions). Audit students pay the same fees as students enrolled for credit. Other fees include:

Accuplacer Retest Fee: Students choosing to take the Accuplacer placement exam more than three times within a year will be charged \$2.00 per subject area, payable in advance of testing.

Administrative Service Fee: This \$10 fee is not paid by students; rather, it is charged to third-party agency agencies that sponsor students.

Distance Learning Fee: One to four credit hours: \$30 per hour. Five or more hours: \$120 per course.

Educational Service Fee: This fee of \$75 is charged on third-party agency contracts requiring additional services; it is not paid by students.

GED Exam fee: \$10.

Late Graduation Fee: A \$20 late graduation fee will be charged to students who do not submit an Application for Graduation by the established deadline.

TVI Challenge Exam Fee: \$15 (may vary).

Registration Fee: There is a \$22.25 registration processing fee required each term (of that, \$2 is collected on behalf of the Student Association of TVI.).

Transcript Fee: Students may request up to five TVI transcripts, free of charge, per academic year.

Additional copies will be issued for a fee of \$1 per copy, payable in advance. A fee of \$3 per page, payable in advance, will be charged for TVI transcripts faxed outside of the Albuquerque area but within the continental United States.

Refunds: Tuition, course fees and the registration fee are refundable only if TVI cancels a class or if the student withdraws by the refund deadline printed in the Schedule of Classes or if, after payment of nonresident tuition/fees, the student's status is changed to resident. The Health Occupations uniform fee is refundable if the student does not receive the uniform. Refund requests may be made at the Cashier's Office.

FINANCIAL AID

<http://ocean.tvi.cc.nm.us/fao>

224-3090

Our Mission: Provide prompt, courteous, and accurate financial assistance to the TVI community to improve access to higher education. Although the primary responsibility for educational costs rests with the student and his or her family, TVI, the federal government, and the state of New Mexico all contribute to assist students pursuing a higher education. Students applying for financial aid should complete a Free Application for Federal Student Aid (FAFSA) available at all four TVI campuses.

Please refer to the TVI Financial Aid and Scholarship Brochure or the Federal Guidebook as well as the TVI Financial Aid Web site for more information on financial aid. The TVI and Federal Guidebook are available at all Student Services locations.

The following is a summary of available financial aid programs and policies.

GENERAL ELIGIBILITY REQUIREMENTS

To receive financial aid a student must:

- Be a U.S. citizen or an eligible non-citizen.
- Enroll at least half time (as defined by federal regulation); this applies to most Title IV programs.
- Enroll in an eligible major.
- Enroll in eligible courses. Some ineligible courses include GED, Health Unit Clerk and apprenticeship classes as well as those courses that apply to ineligible majors only. Financial aid does not pay for audited classes.
- Have a high school diploma, GED or passing scores from an exam indicating you have the ability to benefit from a program of study.
- Maintain satisfactory academic progress as defined by federal regulations.

- Not be in default on any federal educational loans or owe a refund on a grant.
- Sign a statement of educational purpose, stating that the money will go toward educational purposes only.

AWARDS

All financial aid awards are based on information provided by the student, availability of funds and general eligibility requirements. Any award may be revised based on changes in enrollment, cost of attendance, family contribution or failure to meet satisfactory academic progress. Withdrawals or reductions in enrollment may affect an award or any future awards. The regularly scheduled dates of disbursement of financial aid checks are Fridays except on the initial dates of disbursement which are posted and included with the student's award letter.

GRANTS

The federal Pell Grant provides funds to undergraduate students without bachelor's degrees. Awards range between \$133 and \$3,170 per academic year, depending on a student's enrollment status, cost of attendance and family contribution. Students who receive federal Supplemental Educational Opportunity Grants (SEOG) must demonstrate exceptional financial need and the lowest expected family contribution. State Student Incentive Grant (SSIG) recipients must demonstrate financial need, be New Mexico residents and enrolled at least half time. Eligible state Child Care Grant recipients must be New Mexico residents, enrolled at least half time and have child care expenses.

LOANS

Federal Subsidized and Unsubsidized Stafford Loans, Nursing Student Loans for Service and federal PLUS loans require separate applications. Before applying for a loan, a student must first complete the Free Application for Federal Student Aid (FAFSA). Students receiving a loan must be enrolled in a minimum of six credit hours in a degree seeking program of study. Congress also establishes loan limits that may be prorated depending on a student's classification. All first-time borrowers must attend an entrance interview with a financial aid officer before loans are certified. Students who meet Subsidized Stafford Loan eligibility requirements may borrow up to \$2,625 per year as first-year students and \$3,500 per year as second-year students.

WORK-STUDY

Federal Work-Study (FWS) and New Mexico Work-Study are subsidized work programs. Work-study jobs requires a separate application, which is available at all campuses or on the TVI Financial Aid Web site. Available jobs are posted at Main and Montoya campuses and on the TVI Financial Aid Web site. Work-study employees cannot work more than 40 hours per two-week pay period. Work-study students are paid bimonthly at a rate of \$5.75, \$6.00, \$6.30 or \$8.00 per hour, depending on the job. Students must carry a minimum of six credit hours, be admitted in a degree seeking program of study and maintain financial aid satisfactory academic progress while they are employed.

TVI also offers a Student Employment program. Students must be enrolled in a minimum of six credit hours, be admitted in a degree seeking program of study, maintain a cumulative GPA of 2.0 and complete a Free Application for Federal Student Aid (FAFSA).

SCHOLARSHIPS AND OTHER AID

For additional information on scholarships and other aid, students should contact the Financial Aid Office or visit the TVI Financial Aid Web site at

. Assistance is also available through the Veterans Administration, the New Mexico Division of Vocational Rehabilitation and the Job Training Partnership Act of the Department of Labor. Students interested in obtaining aid from these organizations should contact the agencies or the Financial Aid Office. Eligible TVI students with children between the ages of 3 and 5 are eligible to apply for child care at **Tres Manos Child Development Center**. Applications are available through the Financial Aid Office.

CHECK RELEASE

Main Campus students may pick up financial aid checks between 8:30 AM and 5:00 PM at the Cashier's Office in the Student Services Center. Montoya Campus students may pick up checks between 8:30 AM and 5:00 PM at the Cashier's Office in Tom Wiley Hall. A valid picture ID must be presented to pick up a check. If a check is not picked up within 14 days of the release date, it will be mailed to the student. Eligible students receive award letters through the mail, notifying them of scheduled check release dates. Noncompliance with federal regulations or TVI policy, such as unsatisfactory academic progress, insufficient enrollment or an ineligible major or class, will prevent a check from being released.

FINANCIAL AID

Satisfactory Academic Progress (SAP)

Federal regulations require that financial aid recipients meet certain academic standards to be eligible for federal financial aid. To ensure that financial aid recipients are making satisfactory academic progress, academic transcripts are reviewed at the end of each term to determine eligibility for the next term. All terms of attendance are reviewed, including periods in which the student did not receive financial aid. Transfer credits are taken into account when satisfactory progress is reviewed for students enrolled as either Pre-Engineering or Liberal Arts majors.

- 1. Qualitative Progress:** Students must maintain a cumulative grade point average of at least 2.0 (a C average). Grade point values are: A = 4.0, B = 3.0, C = 2.0, D = 1.0, F = 0. Grades of CR, PR, NC, W, AU and TR are not calculated in the GPA. In the case of a repeat course, only the higher grade is calculated into the grade point average.
- 2. Completion Rate:** Students must complete a minimum of 70 percent of all coursework (registered credit hours) attempted at TVI. Any course with a grade of withdraw (W), incomplete (I), progress (PR), audit (AU) or No Credit (NC) is not considered completed coursework. Repeated courses are included in the calculation. Courses dropped before the 10th day of class are not counted as attempted credit hours.
- 3. Maximum Time Frame:** Students must complete their program within 150 percent of the credit hours required in the program. Students who have reached the maximum allowable time will be suspended from receiving financial aid. Preparatory hours are excluded from this calculation. Repeated courses and transfer credits accepted by TVI towards a Liberal Arts or Pre-Engineering degree are included in the student's maximum time frame calculation.

Developmental Courses

Students are eligible to receive SFA funds for up to 30 credit hours. There are no extensions allowed under this provision. This includes but is not limited to state grants and scholarships.

Financial Aid Probation

Recipients are placed on probation for one term of financial aid after the first term they fail to meet the qualitative or completion rate components of satisfactory academic progress. Students will receive financial aid during the probationary term. Students are not eligible to receive a deferment for the term following their probationary term. If a student has never received federal financial aid and is not making satisfactory academic progress at the time eligibility has been established, the student will be placed on probation during the student's first term of eligibility. If a student does not meet all the standards outlined above by the end of the probationary term, the student will be suspended from receiving further financial aid.

Financial Aid Suspension

Students are suspended from receiving financial aid if they do not meet satisfactory academic progress standards by the end of their probationary term. Students suspended from receiving financial aid are not eligible for a financial aid deferment. Students on financial aid suspension will not receive any form of federal or state financial aid (grants, loans, work-study). Financial aid eligibility is reinstated when all standards of satisfactory progress are met.

The Appeal Process

Students suspended from financial aid may appeal the suspension if there are mitigating circumstances affecting their progress. Students who would like to appeal the suspension must submit an appeal form and all required documentation to the Financial Aid Office. A committee will review the appeal and may grant reinstatement of financial aid for one term based on mitigating circumstances that directly contributed to deficient academic performance. Appeals are evaluated on a term basis.

DEFERMENT AUTHORIZATION

Students who sign the Financial Aid Deferment Authorization Form are authorizing TVI to credit their account for tuition, fees, bookstore costs, parking fees and any other charges they may incur while attending TVI. All charges are automatically deducted from the student's first source of financial aid. If financial aid is canceled for any reason or if it does not cover all charges, or if the charges are not deducted from financial aid, students are responsible for paying in full

any charges owed. TVI students who fail to pay these charges by midpoint of the scheduled term in which the expenses were incurred may be dropped from their classes and have a hold placed on their registration and academic records. They must also pay all costs necessary for collections including legal costs and attorney fees plus interest on the balance at the statutory rate. Furthermore, students who do not authorize a deferment and do not pay their charges (tuition, fees, etc.) by the scheduled deadline may be dropped from their classes. Deferment authorizations may be rescinded at any time upon written request by the student during enrollment at TVI. Students placed on financial aid probation may receive a deferment for that probationary term; however, they will not receive a deferment for the next term they attend until grades are posted for the probationary term and satisfactory academic progress has been reestablished. Students who are suspended are not eligible for a financial aid deferment.

The Deferment Authorization Form is available on the TVI Financial Aid Web site at

REFUNDS AND REPAYMENTS

Refunds: TVI has a fair and equitable federal Title IV refund policy under which students or their parents can be refunded for a FPLUS loan, unearned tuition, fees, room and board and other charges for those periods of time the student did not register, withdrew or otherwise failed to complete a term.

Pro-Rata Refunds: Pro-rata refunds apply to students who received federal student aid, attended TVI for the first time and withdrew before they attended 60 percent of the enrollment period or term. The pro-rata refund is not less than that part of a student's tuition, fees, room and board and other charges equal to that portion of the student's enrollment period for which the student has been charged that remains on the student's last recorded day of attendance less any unpaid charges.

Other Refunds: All remaining refunds apply to federal aid recipients who do not meet the pro-rata refund definition. The federal refund policy applies to all students who withdraw, not just to students who provide written notice of withdrawal. The policy mandates that the percentage of institutional charges must be refunded. Students should consult the Financial Aid Guide for details.

Repayment of Cash Disbursements: If a student receives a federal cash disbursement for living expenses and withdraws from school, he or she must repay a portion of the amount received if the cash received is greater than the cost of living expenses at the time of withdrawal. See the Financial Aid Guide for details.

ACADEMIC POLICIES*

DEFINITION OF TERMS

Academic Year: The academic year is divided into three terms: fall, spring and summer.

Attendance: Students enrolled for credit or audit are expected to attend all class sessions. Instructors will take attendance.

Absences do not relieve students of the responsibility for missed assignments and exams. Students must take the initiative in arranging with their instructors to make up missed work.

Students who miss two classes during the first week of the class may be dropped by the instructor. A student with excessive absences may be dropped from a course. If a student is dropped from a course for non-attendance he or she is also dropped from corequisite courses. Students should not assume they will be dropped automatically.

A student who is dropped by an instructor for non-attendance is notified by mail. The instructor's decision is final, but if the student disagrees with the action he or she must contact the instructor within two working days of receipt of the notification.

Additional information about attendance is contained in the Health Occupations handbook and in individual course syllabi.

Classification of Students: The following are standards for the academic classification of students:

- freshman: A student who has completed fewer than 30 credits at TVI
- sophomore: A student who has completed 30 or more credits at TVI
- part-time: A student carrying fewer than 12 credit hours per term
- full-time: A student carrying 12 or more credit hours per term

Course Numbering: Courses numbered 1 through 100 are developmental or preparatory; 101 through 299 are intended for freshman and sophomore-level students.

Credit Hour: Credit in courses offered by TVI is awarded in terms of hours of credit hours. Each hour of credit in a lecture class requires a minimum of 750 minutes of instruction per term; each hour of credit in a laboratory class requires a minimum of 1,875 minutes of instruction per term. For transfer purposes, one TVI credit hour generally equals one semester credit hour at other institutions.

Identification Cards: Each student enrolled at TVI is issued a student identification card. ID cards entitle students to a variety of services and privileges including checking out library books and using the Health Center, as well as student discounts within the community.

GRADES

Final grades are recorded on the student's TVI transcript and calculated in both a term grade point average (GPA) and a cumulative GPA. (See page 19 for information on the recording of course drops and withdrawals on the student's TVI transcript.)

The grades awarded in all courses represent the quality of work done. Their meaning in most courses is as follows:

- A** Excellent; four points per credit hour.
- B** Above average; three points per credit hour.
- C** Average; two points per credit hour.
- D** Below average; one point per credit hour.
- F** Failure; zero points per credit hour.
- CR** Credit; grade is equivalent of at least a grade of C but is not computed in the grade point average.
- NC** No Credit; grade is not computed in the grade point average.
- PR** In Progress; course work not completed; grade is not computed in the grade point average.
- AU** Audit; recorded for completion of enrollment in an audited course; no credit is earned.
- I** Incomplete; grade is not computed in the grade point average (see Incomplete Grade Assignment and Removal).
- W** Withdrew; used for student, instructor and administrative withdrawals.
- TR** Credit for transfer coursework and non-traditional credit; grade is not computed in the grade point average.

Grade Point Average

The grade point average (GPA) is computed by multiplying the number of credit hours of a course by the quality point value assigned to the letter grade: A=4, B=3, C=2, D=1, F=0. For example, a four-credit-hour course with a grade of A carries 16 quality points. Then the total number of quality points earned is divided by the total number of eligible credit hours attempted (GPA hours).

* Note: These regulations do not apply to students taking Adult Education classes. Additional information about academic regulations is contained in the Student Handbook.

Grades of I, CR, PR, NC, W, AU and TR are not calculated in the GPA. Effective fall 1991, courses on the student's transcript or grade card which have an E in the repetition column are excluded from GPA calculation.

Grade Options

Traditional Grade: Students may choose to enroll in Arts & Sciences and occupational courses for a traditional (letter) grade (A, B, C, D, F). Traditional grades are used in calculating GPAs. Students interested in transferring their TVI course work to another institution are encouraged to enroll in courses for a traditional grade.

Audit: Students may register in occupational or Arts & Sciences courses for audit if they have met the prerequisite(s) for the course. Students may not enroll in Adult & Developmental Education courses for audit.

Students who enroll for audit are expected to attend all class sessions but have no responsibilities for completing assignments.

Courses taken for audit will appear on the student's transcript as AU with no credits recorded and no grades assigned. Courses taken for audit are not included in the student's total course load for enrollment verification and cannot be used to meet prerequisite or corequisite requirements.

Credit/No Credit: Students may elect to take Arts & Sciences courses for credit/no credit (CR/NC) rather than for a traditional grade. CR/NC is not an option for General Honors or most occupational courses. All Developmental Studies courses are graded on a CR/NC basis. A maximum of nine credit hours graded CR/NC will be allowed toward the Arts & Sciences requirements in certificates or associate degrees.

CR (Credit): Students must meet all minimum requirements for the course. CR is the equivalent of at least the grade of C. Although the student will receive credit for completing the course, a grade of CR will not be computed in the GPA.

NC (No Credit): Students who do not satisfactorily complete minimum course requirements will receive NC. A grade of NC will not be computed in the GPA and the student will not receive credit for the course.

Note: Certain consequences may result from choosing the CR/NC option. Courses with grades of CR will not be allowed in some Business Occupations majors (programs). Some schools, scholarship committees and honorary societies do not accept this grading system and/or convert grades of CR to C and NC to F. Students planning to transfer to another institution should talk to an advisor at that institution about possible consequences of CR/NC grades.

Open-Entry, Open-Exit: Students may register for courses that have flexible entry and/or exit points with the open-entry, open-exit grading option. Depending on the course, the student may receive a traditional (A,B,C,D,F), credit/no credit (CR/NC) or an in progress (PR) grade.

Incomplete Grade Assignment and Removal: A grade of I (incomplete) is given when circumstances beyond the student's control have prevented completion of the work for a course within the official dates of a term. In no case is an I to be used to avoid a failing grade or to allow extra time to complete work normally expected.

Removal of an I grade can only be accomplished by completing the work in a manner acceptable to the instructor no later than the 10th day of the following term.

An I not made up by the 10th day of the following term will automatically revert to an F or NC on the student's record and cannot be changed by work completion or course repeat.

Repeating Courses: A student may choose to repeat a course for a better grade. Each course enrollment and all grades will appear on the student's transcript. Only the higher grade will be used to calculate the GPA when letter grades (A,B,C,D,F) are recorded for both the original course and each course repetition. This policy applies to courses with identical course abbreviations and numbers except for the following: topics, independent study, internship and cooperative education courses, and when course abbreviations and numbers change as a result of new programs and/or program revisions. It does not affect any courses taken prior to fall 1991.

Note: Certain forms of financial aid will not provide assistance to students who repeat courses previously completed successfully. Compliance with such regulations is the student's responsibility.

Grade Appeals

Students with questions concerning a final grade in a course must contact the instructor within the first week of the following term. If the instructor is not available the student should contact an instructional administrator in the department in which the course was taken. If an error is identified, the instructor or instructional administrator will submit a grade correction to the Records Office.

If the matter is not resolved at the department level, the student may formally appeal the final grade by submitting a Grade Appeal form (available in instructional offices) to the office of the dean of students. The appeal must be made by the end of the

fourth week of the term following the term of the grade in question. If the dean of students determines that the appeal has merit to be heard, a review panel will be convened within three weeks of the appeal submission. The decision of the review panel will be final.

A student who fails a course after being unable to officially withdraw or drop due to circumstances beyond his/her control (for example, hospitalization or military service) may appeal in writing to the director of enrollment services/registrar. The appeal, along with supporting documentation, must be submitted by the end of the following term.

ACADEMIC RENEWAL

Students who return to TVI after an extended absence may petition to remove complete academic terms from future degree and GPA considerations. This policy allows TVI students who had previously experienced academic difficulty to make a fresh start. Approval of the petition is based on the conditions listed below. If approved, Academic Renewal will result in a new grade point average.

1. To be eligible for Academic Renewal the student must have been absent from TVI for at least three consecutive years prior to petitioning for Academic Renewal and must have completed at least 15 credit hours since his or her return with at least a 2.0 GPA.
2. Courses taken prior to fall 1988 term are not eligible for Academic Renewal. All courses with grades of D or F taken between fall 1988 and the student's absence will be affected by Academic Renewal.
3. Academic Renewal may be granted only one time per student and cannot be reversed.
4. Any academic suspensions that occurred in the past shall remain on the student's permanent academic record.
5. All attempted coursework and grades will remain on the student's official transcript. All courses affected by Academic Renewal will be excluded from the GPA calculation and may not be used to meet program and/or residency requirements for future graduation. A statement will be placed on the student's transcript indicating that Academic Renewal status was granted.
6. Academic Renewal does not affect any previous academic, financial or administrative determination made by TVI. Other institutions/agencies may or may not choose to honor this policy in evaluating a student's transcript.

7. Academic Renewal does not override the enrollment requirements of certain programs that require a specific minimum grade point average based on all coursework. Re-entry into any academic program is not automatic.
8. Petitions for Academic Renewal are obtained from academic advisement offices.

ACADEMIC STANDARDS

Honor Roll: The Vice President's Honor Roll is compiled each term, listing students who completed 12 or more credit hours with traditional grades during the term and who achieved a term GPA of 3.5 or higher.

Warning: A student whose cumulative GPA is between 1.75 and 1.99 in a given term will receive a warning. Notification of academic warning appears on the student's grade report at the end of each term.

Probation: A student whose cumulative GPA (based on at least 16 GPA credit hours attempted at TVI) falls below 1.75 in a given term will be placed on probation effective with the following term of enrollment.

Students are continued on probation if they withdraw from TVI while on probation. Notification of academic probation appears on the student's grade report at the end of each term.

Note: Health Occupations programs may have specific requirements which affect a student's eligibility to continue in the program. Students should refer to the program handbook.

SUSPENSION

After two consecutive terms of probation a student will be suspended from TVI when both the term and cumulative GPA are below 1.75. The duration of the initial suspension is one term; for subsequent suspensions, one year. Notification of academic suspension appears on the student's grade report at the end of each term and in a notification letter sent to the student.

If a suspended student has preregistered for the next term, his/her schedule will be deleted and a refund of all fees and tuition will be authorized. A suspended student may be eligible to enroll in Developmental Studies courses during the student's initial suspension period.

Suspension Appeals: A student who has been suspended may submit a written appeal, explaining the unusual circumstances justifying why he or she should be readmitted, to the director of Admissions and Records, who will approve or deny the appeal. If the director denies the appeal, the student may appeal in writing to the Student Academic Appeals Committee by filing the appeal with the director of Admissions and Records for transmittal to the committee. The student may present the case to the committee in person or ask that the written appeal be considered. If the committee decides to readmit a suspended student, his or her academic status will be probationary.

GRADUATION

TVI conducts one graduation ceremony each year at the end of the spring term. A student graduates in the term in which all graduation requirements are completed even if there is no graduation ceremony scheduled that term. In 2001, graduation for students who complete programs in the summer and fall 2000 and spring 2001 terms is April 20.

General Requirements: To be eligible to receive a degree or certificate, students must meet the following requirements as well as those listed under the specific major (program) they wish to pursue:

- a cumulative GPA of 2.0 or better for associate degrees; a GPA of 2.0 in the major (program) for certificates;
- completion of the last term of course work in residence at TVI;
- enrollment in the major in which they plan to graduate (see page 12 for information on adding, changing and declaring majors);
- completion at TVI of at least one-quarter of the required program coursework and credit hours for a certificate and at least 15 credit hours of the required program coursework for a degree after the program becomes available;
- completion of all program and course requirements (occupational coursework which is at least ten years old must be validated by the instructional department in which the course was offered); and
- completion and submission of an Application for Graduation within two terms of last enrollment. Incomplete packets will not be processed.

Note: A maximum of nine credit hours of CR may be counted toward certificates or degrees in majors which allow the CR/NC option. Credit based on challenge exams and courses graded AU do not apply toward the graduation residence requirement.

All debts to TVI must be paid in full before graduation.

Application for Graduation: Students in degree or certificate programs must submit a Graduation Application Packet by midterm of the term in which all graduation requirements are completed.

Students requesting a certificate or degree in more than one major must submit a complete Graduation Application Packet for each major. Students completing more than one certificate or degree program may not wait until the final program has been completed to apply for graduation. Students may not apply for graduation in more than two programs per term. Graduation Application Packets must be submitted as each program is completed; failure to do so may cause incremental certificates to be denied.

Students using transfer credit, examination credit and/or course waivers/substitutions to fulfill program requirements must have all credit established and all documentation on file in the TVI Records Office at least two weeks prior to submitting the Graduation Application Packet (see page 10–11). Failure to do so will cause the application to be denied.

On the Main Campus, application packets for occupational programs are available in instructional department offices; liberal arts packets are in the Advisement Center. At the Montoya, Rio Rancho and South Valley campuses, application packets are available in the Advisement/Counseling Offices.

Students who do not submit an application by the deadline must pay, in advance, a \$20 late graduation processing fee for each application. No application will be processed after the tenth week of the term.

Choice of Catalog: The application form for a degree or certificate requires a student to specify the catalog year listing degree or certificate requirements. A student may choose to graduate under the catalog that was in effect when he or she officially entered the specific major or any subsequent catalog, provided that:

- the selected catalog is not more than five years old when the degree or certificate requirements are completed and the student has been in continuous enrollment; and
- the certificate/degree program does not have a specific requirement about choice of catalog.

Regardless of the catalog under which a student will graduate, pre- and corequisites must be met for each course at the time of registration. Those whose enrollment is discontinuous graduate under the catalog that is current upon their return.

Continuous Enrollment: In order to maintain continuous enrollment for graduation purposes, a student's transcript must show enrollment in each successive term. Full-term courses dropped on or before the 15th day of the term or session (including Saturdays) do not appear on the student's TVI transcript. If an interruption in enrollment of one or more terms (excluding summers) occurs, graduation requirements applicable at the time of re-enrollment will apply.

Graduation with Honors: Students earning cumulative GPAs of 4.0 graduate with highest honors. Students with cumulative GPAs of 3.6 to 3.9 graduate with honors. Degrees and certificates note these awards.

Updating Associate Degrees: A student who has received an associate degree from TVI may earn a subsequent associate degree in the same major (program) when:

- the student completes, at TVI, a minimum of 30 credit hours of new or additional required program course work (*see note below*) and
- the student has met all other graduation requirements as stated in the TVI catalog.

Note: These credits must be earned in courses required by the program for graduation and may not have already been used to satisfy graduation requirements in the student's prior degree(s) in that major (program). These new and/or additional credits cannot be earned by repeating courses that were used for graduation in the prior TVI degree(s) in that major (program).

Updating Occupational Certificates: A student who has received an occupational certificate may update his/her skills and earn a subsequent certificate in that program when:

- the previously earned certificate is ten years old or older, and
- 100 percent of the certificate coursework was completed within the past ten years; and
- the student has met all other graduation requirements as detailed in this section.

STUDENT ACADEMIC RECORDS

Official academic records are maintained by the Records Office. These records include, but are not limited to, the admissions application, high school and/or college transcripts, grades and academic standing.

TVI's policy for maintaining confidentiality of student academic records is in accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA, P.L. 93-380, 512). Copies of the Rights and Privacy Act are available for examination in the Records Office at the Main Campus and the Admissions Offices at the Montoya, Rio Rancho and South Valley campuses.

Access to Student Academic Records

All currently enrolled and former students may have access to their academic records. Other individuals and agencies who may have access to students' records include:

- TVI officials who have a legitimate educational interest in the records;
- officials of another school in which a student seeks to enroll, intends to enroll or is enrolled
- officials of the U.S. Department of Education, the Comptroller General, and state and local educational authorities;
- organizations providing the student's financial aid or determining or assisting in determining financial aid decisions concerning eligibility, amount, condition and enforcement of terms of said aid;
- federal, state and local officials or authorities if required by a state or federal law
- organizations conducting certain studies for or on behalf of the Institute
- accrediting institutions
- organizations or individuals conducting studies for or on behalf of TVI
- parents or legal guardians of a dependent student under the age of 18, as defined in the Section 152 of the Internal Revenue Code
- individuals serving a judicial order or a lawfully issued subpoena, provided that a reasonable effort is made to notify the student prior to compliance
- honor societies and other chartered student organizations for determining membership
- any person with the written consent of the student or the parent or legal guardian of students under 18
- appropriate parties in a health or safety emergency

Public Directory Information: TVI has defined public directory information as:

- student's name
- major field of study
- classification
- dates of attendance
- awards and honors
- degrees/certificates awarded

This information is available to the public and will be released unless an annual written request to withhold the information is on file in the Records Office. Request forms may be obtained in the Records Office.

Challenge of Contents: Students have the right to challenge the content of their academic record if they feel the information is misleading, inaccurate or in violation of privacy or other rights. However, the fairness of a grade may not be challenged under this provision. Any dispute over the contents of the record will be handled through informal discussions between the student and the Records Office. If such informal meetings are not satisfactory, the student has the right to a formal hearing before an appeals committee. Students have the right to file with the U.S. Department of Education a complaint concerning alleged failures by TVI to comply with the requirements of FERPA.

Change of Address: The student is expected to keep TVI informed of his or her current address. Address changes are processed only for currently enrolled students. Changes must be reported in writing to the Records Office on the Main Campus or the Admissions offices at the Montoya, Rio Rancho or South Valley campuses.

Change of Name: Name changes will be processed only for currently enrolled students. Students must bring appropriate documentation (at least two types of identification showing the new name) to the Records Office on the Main Campus or the Admissions Offices at the Montoya, Rio Rancho or South Valley campuses. Examples of such documentation are: marriage certificate, birth certificate, driver's license, original social security card or court order for legal name change.

Release of Transcripts: Unofficial TVI transcripts are available from the "Touch TVI" kiosks at all campuses and from the Records Office at Main Campus. Official TVI transcripts are available from the Records Office and from the Admissions Offices at the Montoya, Rio Rancho and South Valley campuses (additional processing time may be required). Students may request up to five official TVI transcripts, free of charge, per academic year. Additional transcripts cost \$1 each or \$3 for faxes within the continental U.S. and must be paid in advance. No transcript is issued until all institutional obligations are paid.

Transcripts from other institutions received by TVI are not copied or returned to students.

Social Security Number: Under the federal 1997 Tax Relief Act, TVI is required to obtain the Social Security number of each student in order to report educational credits to the U.S. Internal Revenue Service (IRS) and to the student at the end of each tax year. Refusal to provide a valid Social Security number may result in a fine levied on the student by the IRS. The privacy of a student's Social Security number is protected under FERPA and covered under TVI's Access to Student Academic Records and Public Directory Information policies (see above).

Student Right to Know and Campus Security Act: Student retention and completion data are available from TVI's Institutional Planning and Research Office. A graduate job placement table is on pages 6–7. Campus security policies and crime statistics, as well as the Code of Conduct and the substance abuse and sexual harassment policies, are published annually in the Student Handbook.

STUDENT SERVICES

<http://ocean.tvi.cc.nm.us/student-service>

224-4747

Students—prospective, new, continuing and former—are provided with a wide range of services at TVI. The following services are available at all four campuses:

- admission and registration information;
- new and continuing student orientation;
- academic advisement; and
- services or referrals for counseling, financial aid and testing.

Services at the Main and Montoya campuses include support for students with disabilities, financial aid, testing, career planning, job placement and (at Main only) health and fitness care. Counseling, career planning and some testing services are available by appointment.

The hub of TVI student services is the Student Services Center at 900 University Boulevard SE. At the Joseph M. Montoya Campus, services are available in Tom Wiley Hall and in H Building. Students may call the TVI admissions information line, 224-3160, for directions to Main and Montoya services. Student Services at Rio Rancho may be reached by calling 892-7113; the number at South Valley Campus is 224-5000.

Details about student services, as well as academic and conduct regulations, campus maps and phone numbers, and tips for student success, are published in the TVI Student Handbook, which is distributed free at all campuses. “Touch TVI” kiosks at all campuses offer self-service information and access to TVI’s home page and students’ files. Information and assistance also are available from the dean of students office, 224-4342.

Academic Advisement and Counseling

Professional advisors, counselors and staff in the Advisement Centers (224-3147 at Main Campus or 224-5646 at Montoya) provide:

- review of transfer, exam and non-traditional credits;
- assistance with course placement based on placement tests or prior college courses;
- information about program requirements/majors;
- help in declaring or changing majors;
- advice on academic progress and goals; and
- academic guidance during registration.

Personal and Career Development Counseling

TVI’s Counseling Centers at Main (224-4321) and Montoya (224-5646) campuses are staffed by licensed professional counselors who provide career, educational, personal and mental-health counseling; workshops and special-interest groups; information for those preparing for the GED test; and crisis intervention. A Native American advisor and support staff are available. The Career Resource Rooms (224-4344 at Main and 224-5646 at Montoya) have books, videos, Internet access and other career research tools for students.

Special Services

Special Services (224-3259 at Main, 224-5946 at Montoya) assists students with physical, mental, learning, visual, speech or hearing disabilities. Career counseling, program planning, classroom accommodations, adaptive equipment, coordination with community support agencies and specialized learning plans are available. Follow-up services such as counseling and job-seeking help are also provided.

Testing Services

TVI’s Testing Centers, in the Student Services Center at Main Campus (224-3244) and in Tom Wiley Hall at Montoya Campus (224-5761), offer a variety of tests, most of them free of charge. Study guides for most exams are available in the Testing Centers and in Admissions offices. Testing accommodations for individuals with disabilities are available upon request; documentation and prior notice are required.

Among the examinations administered at TVI are Accuplacer math, reading and English tests; the Healthcare Technician program entry exam; the Nursing Basic Math Test and Nursing Mobility Profile; the Spanish placement exam and typing tests.

The American College Test (ACT) for placement is not offered at TVI. Students wishing to take the tests must register for a national test date; information and registration packets are available in the Testing Centers. TVI accepts ACT scores from all students for placement in certain courses. TVI also honors SAT, AP and CLEP scores but administers only the CLEP exam; for further information students may contact the Testing Centers.

GED Exam

Anyone at least 17 years old who is not a high school graduate may take the General Educational Development (GED) exam at TVI to earn a high school diploma. The exam contains sections on writing, reading, science, social studies and math. A \$15 fee is charged for the GED test.

A 17-year-old may take the exam only if released from state compulsory school attendance and granted a GED Underage Permission Form. No currently enrolled high school student and no one 16 years old or younger may take the exam.

The Department of Adult & Developmental Education (224-4282 at Main Campus, 224-5575 at Montoya) offers both a pre-test to determine readiness for the exam and free GED preparatory classes (see page 27).

Student Job Placement

Student Job Placement (224-3060 at Main Campus, 224-5507 at Montoya) provides a variety of job search services to students and graduates, including job listings, a job hotline, resume and interview assistance, on campus recruitment and interviews with employers, job market information, job fairs, job search workshops, and videos and specialized assistance. Eligible students may register in the Student Job Placement Department or from anywhere they have Internet access for on-line services at <http://sjpweb.tvi.cc.nm.us>.

Student Job Placement provides a variety of services to employers, including no-cost job advertising, student/graduate referrals, on-campus recruiting and interviewing, career fairs, and instructional/faculty contacts. Employers may register for on-line services at <http://sjpweb.tvi.cc.nm.us> or may contact the department by telephone.

Student Job Placement provides institutional and community services, including class presentations upon request describing department services, and collecting and publishing TVI graduate job placement statistics. A table showing graduate job placement is on pages 6–7; for the most recent information, contact the Student Job Placement Department.

Experiential Education

The Office of Experiential Education provides a variety of services in cooperative education, internships, service learning, community service and volunteerism. The office works with instructional programs in providing students with various forms of experiential education opportunities. The office is open weekdays from 8 a.m. to 5 p.m. Students are required to register for cooperative education, internships and service learning.

Health Care

The Student Health Center, located in the Student Services Center on Main Campus (224-3080), is open weekdays from 8 AM to 5 PM. First aid and basic primary care services are offered. Services are free except for complete physical exams and some immunizations. Details about private-provider student health insurance are available at the Student Activities Office in the Student Services Center at Main Campus (224-3238) and in Wiley Hall on the Montoya Campus.

Campus Life

Albuquerque TVI offers its students a number of activities which are meant to enrich life on campus and to provide for a well-rounded education. Lists of activities and services, along with the campus code of conduct, are published in the Student Handbook.

Child care: TVI maintains affiliation with Tres Manos Child Development Center, 823 Buena Vista SE on the south side of Main Campus (848-1310), to provide daytime care for children of low-income students. Neighborhood residents may also use Tres Manos. Cost of services is on a sliding scale and preference is given to single parents. (Also see page 16.)

Parking: Parking is currently free at most campus lots, although spaces are limited and extensive changes in parking will occur during the 2000-01 school year resulting in most on-campus parking being paid. At Main Campus, students and employees may purchase parking permits for the gated lot east of the Student Services Center.

Parking stickers are required for all campus lots and are available free at the information counter in the Admissions Office at Main and Montoya and in the administrative offices at Rio Rancho and South Valley campuses. Parking violations may result in disciplinary action against car owners. Cars parked in fire lanes and in spaces reserved for the handicapped are subject to towing. Additional information is available from Parking Services (224-4637).

TVI students and employees also may purchase parking permits for the University of New Mexico south lot on César Chavez Boulevard. A shuttle bus stops at the Main Campus.

ACADEMIC SUPPORT SERVICES

These services are available free to students and, in some cases, to the public. Libraries and other facilities are generally open weekdays and, when classes are in session, evenings and weekends. Hours are listed in the Student Handbook.

LIBRARIES

The libraries at the Main and Montoya campuses offer books, videotapes, maps, pamphlets, newspapers, magazines, encyclopedias and dictionaries, as well as computerized information retrieval systems. Special collections are maintained in all TVI occupational subjects. Services include help in locating materials, instruction in using a library, study facilities, interlibrary loans, magazine back issues and coin-operated copying machines.

The Main Campus Library is in Jeannette Stromberg Hall (224-3274); the Montoya Campus Library is in J Building (224-5721).

Information about the libraries' electronic resources is available on the TVI home page:
<http://ocean.tvi.cc.nm.us/library/>.

INSTRUCTIONAL MEDIA RESOURCES

This unit provides audiovisual, media production and distance learning technical support. Other services include assistance in the design, preparation and application of audiovisual materials for instruction, information and promotional activities.

The Main Campus IMR offices are in Stromberg Hall (224-3306) and Salazar Hall (224-3400). At Montoya, IMR is in K Building (224-5746).

ASSISTANCE CENTERS FOR EDUCATION

The Assistance Centers for Education (ACE) provide learning support at all four campuses by offering one-to-one and small-group learning assistance, reinforcing classroom concepts, fostering independent thinking and helping develop problem-solving skills. ACE is part of the Department of Adult & Developmental Education.

Services are available free to students and, in some cases, to members of the public. ACE is certified by the College Reading and Learning Association, and qualified tutors are available to help students in a variety of subjects. ACE components are:

Open Computer Lab: This lab in Jeannette Stromberg Hall at Main Campus (224-4313) is for use by students and, on a space-available basis, by the public. The lab has Pentium computers with various software for educational and personal use on a first-come, first-serve basis. Staff members are on duty to provide general assistance.

Tutorial/Learning Centers: The T/LCs provide all TVI students with free individual tutoring services on a walk-in basis. Subjects covered are math, English, chemistry, physics and biology. Vocational tutors are available for Technologies (including computer programming) and Health Occupations courses. The centers also offer audio and video tapes which support TVI's instructional programs as well as handouts for self-study. Self-paced programs are available in academic skills improvement and test preparation. Each center has computers for student and public use.

The T/LCs are accredited by the College Reading and Learning Association. The Main Campus T/LC is in Stromberg Hall (224-4306). At Montoya, the T/LC is in J Building (224-5990).

Adult Education Learning Centers: The centers provide individualized instruction and independent study to Adult Education students in reading, math, writing and English as a second language. A variety of instructional resources is available, such as audio cassette tapes, video tapes, textbooks and software. Instruction is provided on an open-entry basis by tutors. The Main Campus center is in Stromberg Hall (224-4312). The Montoya center is in J Building (224-5582).

Math Applications Learning Lab (MALL): The lab provides extra assistance for students in Developmental Education math classes. For the many students who learn by doing, this lab provides the hands-on practice needed to understand principles and formulas commonly used in basic math and algebra classes. At Main Campus the lab is in Ken Chappy Hall (224-3987). At Montoya the lab is in J Building (224-5990).

Writing and Reading Assistance Center (WRAC): Developmental Education students have access to one-on-one and small-group help with writing and reading projects in the WRAC. This help includes instruction in pre-writing techniques, outlining strategies, essay organization, summary writing, grammar, vocabulary building, reading comprehension, test preparation, study skills and other concepts covered in reading and writing courses. Resource materials and computers with writing and reading software are also available. This lab is located in Ken Chappy Hall on the Main Campus (224-3954) and in J Building at Montoya (224-5990).

Developmental Education Math Tutoring: Instructional technicians provide one-to-one and small-group instruction to Developmental Education students at both campuses. The math tutoring centers also offer weekly small-group workshops, computer-aided instruction, a resource library and a lending library of math videos and calculators. At Main Campus the center is in Ken Chappy Hall; at Montoya it is in J Building.

ADULT & DEVELOPMENTAL EDUCATION

<http://planet.tvi.cc.nm.us/dade>

224-3939

The Department of Adult & Developmental Education (DADE) is committed to using education as a tool to help students increase options, thus improving the quality of their lives. To this end, DADE offers a broad range of courses in basic skills.

There are many reasons why students are not ready for college-level studies. Some did not enroll in the right courses in high school; others once had the skills but now need to brush up; and some students have faced responsibilities or circumstances that made it difficult to succeed.

Faculty and staff in the Department of Adult & Developmental Education work with students to develop the basic academic, work and life skills necessary for success. DADE offers non-credit classes in Adult Education and credit courses in Developmental Education. Credit courses in reading, writing, math and science are offered as well as introductory courses to some vocational programs. Students are placed in the appropriate courses based on their needs, interests, academic abilities and test scores. The department also offers learning support through the Assistance Centers for Education (see page 26).

The vision of the Department of Adult & Developmental Education is a progressive learning community in which all students, staff and faculty can succeed and become life-long learners.

DADE's mission is to create a progressive learning community designed to meet the needs of a diverse student population by integrating adult education, developmental education and learning assistance.

ADULT EDUCATION

Non-credit Skills Classes

Our goal in Adult Education at TVI is to help students identify and achieve basic educational goals. To do that, we offer free non-credit classes in basic reading, math, writing, English as a second language and job/life skills. These classes may help students prepare for higher education, job advancement or personal fulfillment. The Adult Education Program is a separate non-credit component of TVI. Adult Education students receive the same services as other TVI students (library access, for example) but do not follow the procedures outlined in this Catalog for admission/registration and are not eligible for financial aid.

Se Habla Español. Nuestro objetivo en el programa de Educación Para Adultos en TVI es ayudar a los estudiantes a identificar y realizar sus metas educativas básicas. Para cumplir con ello, ofrecemos cursos, sin crédito, en Inglés como segunda idioma

(ESL), cursos que tratan las destrezas académicas fundamentales, así también como el mundo del trabajo y de la vida cotidiana. Todas estas clases podrán conducir al estudiante hacia más educación, avance en el trabajo y/o realización personal.

Locations. Adult Education classes are offered during the day and in the evening at each of the TVI campuses as well as at many community sites throughout Bernalillo County. Additional information on Adult Education sites is available at any of the TVI campuses.

Registration. Anyone interested in registering for an Adult Education course may do so in person at any of the TVI campuses or community sites where classes are offered. Adult Education offices are located in Ken Chappy Hall on Main Campus (224-3939), the H Building at Montoya Campus (224-5681) and in the main office area at South Valley Campus (224-5010). Prior to registering for classes offered at TVI campuses, students are required to complete the CASAS assessment for placement into classes.

Costs. Classes and textbooks are provided free to students.

Attendance. Teachers take attendance at each class session. If a student is absent four classes in a row, the teacher tries to contact the student. A student may be dropped from the class after four consecutive absences. Students who have missed or dropped classes are encouraged to go to the Adult Education Learning Centers at the Main and Montoya campuses to continue their studies.

Standards of Progress. Each student receives a certificate that indicates the total number of hours attended in each course. No letter grades are given.

Classes. Offerings reflect the needs of the community and may change from term to term. Generally, the Adult Education program offers classes in three areas of study: basic skills (including preparation for the GED high school equivalency exam; class prefix BSK), English as a second language (prefix ESL) and job/life skills (JLS). Unless otherwise noted, classes are offered in full-term format; others are offered in short sessions.

DEVELOPMENTAL EDUCATION

Credit College-Preparatory Courses

Developmental Education courses prepare students for liberal arts or vocational majors, for self-improvement or career enhancement. The courses are graded CR (credit) and NC (no credit) to help students build their skills without the added pressure of the traditional grading system (A,B,C,D,F). While credit from Developmental

Education courses is not transferable to other degree-granting institutions, these courses typically help students meet admissions requirements and program prerequisites.

Developmental courses are numbered 090 through 100. Subjects are English (course prefix ENG), developmental math (MATH), reading (RDG), skills (SSKL), science (SCIE), biology (BIO), chemistry (CHEM), occupational topics (OCC), accounting (ACCT), business (BA), computer programming (CP),

computer science (CSCI), drafting (DRFT), electronics (ELEC) and health (HLTH).

Eligible students may receive financial aid for up to 30 credit hours in Developmental Education courses. Students using veterans' benefits should check with VA certification advisors (in the Financial Aid Office) to determine if the Developmental Education courses are eligible for benefits.

FULL-TIME INSTRUCTIONAL PERSONNEL

Geraldine L. McBroom, dean; Ph.D.

R. Jane Bradley, associate dean; Ph. D.

Tim Allen, math and science instructor; B.S.E.

Roberta Ataman, English and reading instructor; M.Ed.

Donald Bauer, math, reading, basic skills and drafting instructor; B.S.

Hailey Binford, ESL instructor; M.A.

Judith L. Brown, math/reading/study skills instructor; M.A.

Angelika S. Carroll, English and reading instructor; M.A.

James N. Chaves, math/science-electronics instructor; M.S.

Marie Chávez, ESL/Spanish and basic skills instructor; M.A.

Max Cisneros Jr., math instructor; B.A.

Linda Clay, math instructor; M.A.

Marya Corrigan, director of instruction, Adult Education; M.A.

Don Croxton, math instructor; B.S.

Darryl Domonkos, math and reading instructor; M.C.P.

Martin J. Doviak, English and math instructor; M.A.

Shirley Ellison-Pryor, special education, math, reading and English instructor; M.A.

M. Sue Fox, basic skills and English instructor; M.B.A.

Vicki Froehlich, math instructor; M.Ed.

Stephen Gallegos, reading and study skills instructor; M.A.

Katherine Green, English and reading instructor; M.A.

Constance Gulick, English and reading instructor; M.A.

Jean Hafner, science and math instructor; B.S.

Vicki Hagen, English and reading instructor; M.A.

Janice Hart, English instructor; M.A.

Teresa Hill, English and reading instructor; B.A.

Margaret Ann (Gretta) Hochstatter, math instructor; B.S.

Donna Hurtado, special education, English, reading and math instructor; B.A.

William Johns, math and electronics instructor; M.A.

Larry Johnson, special education, reading, math, and computer instructor; M.A.

James B. Kimmons, math and reading instructor; M.A.

Nancy King, English instructor; M.A.

David Kohles, accounting, math and science instructor; B.S. Ed.

Judy G. Kristl, math, reading and English instructor; B.S.

Joseph R. Krzyzanowski, math instructor; M.A.

Don Lauser, basic math and computer skills instructor; M.A.

Gerald Leister, English and math instructor; Ed.D.

Ilene Perl Maness, chemistry and math instructor; M.A.

Connie Jo Martinez, English, math and business occupations instructor; M.B.A.

Elizabeth C. Martinez, English, math and business occupations instructor; M.A.

Marcie Bernal McKenzie, ESL, reading and literacy instructor; M.A.

Charles Miller, math instructor; B.S.

Elizabeth O'Neall, English instructor; M.A.

Maria C. Pacheco, science and math instructor; B.S.

Deborah Weaver Parker, English, math and reading instructor; M.A.

Linda Pope, English, math and reading instructor; M.A.

Robin Ramsey, reading and English instructor; M.A.

Richard Randolph, English and reading instructor; Ph.D.

Mark Rudd, math instructor; B.A.

Juan M. Saavedra, math and computer skills instructor; BA

Therese Samuel, ESL and literacy instructor; B.A.

Stephen Sanchez, director of Student Transitional Program; M.A.

Gary Sandstrom, math and health instructor; M.A.

Glenna Siddons, English instructor; M.A.

Joan N. Silverstein, literacy, basic skills and ESL instructor; M.A.

Sue Small, basic skills and writing instructor; M.A.

Jana Smith, director of instruction, Developmental Education; B.S.

Theresa Sullo, English and reading instructor; M.A.

Ann Tran, math and English instructor; M.A.

Lis Turkheimer, director of Assistance Centers for Education, B.A.

Deloris Watkins, English, math and business occupations instructor; B.A.

Phillip Weaver, math, reading and science instructor; M.A.

Cynthia Wooley-Guillén, ESL and basic skills instructor; M.A.

John Wright, English instructor; M.A.

ARTS & SCIENCES

<http://mongo.tvi.cc.nm.us>

224-3561

Arts & Sciences provides liberal arts courses to support vocational degree and certificate programs and offers the associate of arts in liberal arts degree. All courses are transferable to other degree-granting institutions as freshman and sophomore electives or requirements. All courses in Arts & Sciences have tuition charges. In addition, science, computer science and art courses have course fees.

GENERAL HONORS PROGRAM

Offering intensive interdisciplinary study, the General Honors Program increases opportunities for liberal arts education. Taught in a small-group seminar format, Honors courses (prefix GNHN) emphasize discussion, student participation and self-expression. Students interested in these courses must have completed nine hours in Arts & Sciences, have a 3.2 or higher cumulative GPA and have earned a B or better in English 101. For information and registration, interested students should see an advisor.

FULL-TIME INSTRUCTIONAL PERSONNEL

Susan A. Murphy, dean; Ph.D.

Jon Bentley, associate dean; M.A.

Jenna Johnson, associate dean; M.S.

Stephen Schoonmaker, associate dean; M.A.

Rama Akkaraju, mathematics instructor; M.S.

Stephen Andrews, history instructor; M.A.

Richard Araiza, mathematics instructor/chairman; M.A.

Jane Bardal, psychology instructor; Ph.D.

Jean Batson-Turner, sociology instructor; M.A.

Jon Bentley, associate dean; M.A.

David Blankenbaker, mathematics instructor; M.A.

Gene Booth, English instructor; M.A.

Joseph Boroughs, psychology instructor; Ph.D.

Paul N. Cahoon, English instructor; M.A.

Richard Calabro, biology instructor; M.S.

Philip Carman, astronomy/physics
instructor/chairman; M.A.

María Luisa Chacón, Spanish instructor; M.A.

Gina R. Chance, sociology instructor; M.A.

Steve Cormier, history instructor; Ph.D.

Sravanthi Cornell, chemistry instructor; Ph.D.

Lee Couch, biology instructor; M.S.

Arnold Crelier, chemistry instructor; Ph.D.

Terry Daughtrey, anthropology instructor; M.A.

AEROSPACE STUDIES

Students may register at TVI for the University of New Mexico Aerospace Studies (Air Force). Uniforms and textbooks are provided. Because these courses (prefix AFAS) are offered at the main campus of UNM, students should contact UNM before enrolling:

Evette E. Aponte, Lt. Col., USAF,
Commander Aerospace Studies
University of New Mexico
AFROTC Detachment 510
Aerospace Studies Building,
1901 Las Lomas NE
277-4502

Credits in Aerospace Studies may not be applied to any associate degree or certificate at TVI.

Rose Day, English instructor; Ph.D.

Katherine Demitrakis, psychology instructor; Ph.D.

Jack Douthett, mathematics instructor; Ph.D.

Kaz Dziamka, English instructor; Ph.D.

Jeanne Elmhurst, communication studies
instructor; M.A.

Joseph Eridon, chemistry instructor/chairman; M.S.

Joyce Flagg, English instructor; M.A.

Kateljine Flies-Dullea, biology instructor; Ph.D.

Megan Florence, mathematics instructor; M.A.

Ralph Flores, English instructor; M.A.

Cheryl Foote, history instructor; Ph.D.

Richard Fox, political science instructor; M.A.

Ernest Garcia, art instructor; M.F.A.

Chris Gebel, mathematics instructor; M.A.

Janet Heath, mathematics instructor; M.S.

Michael Hillard, psychology instructor; Ph.D.

Sherry Holmen, communication studies instructor/
chairman; M.A.

Patrick Houlihan, English/journalism instructor; Ph.D.

Havva Houshmand, humanities/religion
instructor; Ph.D.

Julie Huntsman, biology instructor; M.S.

Shepherd Jenks, anthropology instructor; Ph.D.

James Johnson, psychology instructor; M.A.

Jennifer Lyn Johnson, art instructor; M.F.A.
 Stephanie Kauffman, English instructor; Ph.D.
 Maureen Kelly, mathematics instructor; M.A.
 William Kuipers, biology instructor; Ph.D.
 Martin Larter, chemistry instructor; M.S.
 Kevin Leith, mathematics instructor; M.S.
 Jane Lyo, mathematics instructor; M.A.
 Linda Martin, mathematics instructor; M.A.
 Carol Ann Martinez, chemistry instructor; M.S.
 Tamra Mason, mathematics instructor; Ph.D.
 Stephen Mathewson, English instructor; Ph.D.
 Layne McAdoo, sociology instructor; Ph.D.
 Colleen McNamara, biology instructor; Ph.D.
 Shelly Metz, psychology instructor/chairman; Ph.D.
 Deborah Miller, chemistry instructor; M.S.
 William Miller, philosophy instructor/chairman; M.A.
 Deborah Muldavin, biology instructor/chairman; M.A.
 Barbara Muller, English instructor; M.A.
 William Murrell, philosophy instructor; Ph.D.
 Mary Odom, physics instructor; M.S.
 Linda Oldham, English instructor; M.A.
 Lisa M. Orick, communication studies instructor; M.A.
 Umesh Pandey, physics instructor; M.S.
 Kate Parker, English instructor/chairman; Ph.D.
 Harold Partin, mathematics instructor; Ph.D.

George Pletsch, mathematics instructor; Ph.D.
 Alan Pope, English instructor; Ph.D.
 Fred Ream, mathematics instructor; M.A.
 Jim Rewalt, mathematics instructor; M.S.
 Geri Rhodes, English instructor; Ph.D.
 Ruth Risse, Spanish instructor; Ph.D.
 Tomas Ruiz-Fabrega, Spanish instructor; Ph.D.
 Phil Sanchez, communication studies instructor; M.A.
 Jamie Searcy, English instructor; M.A.
 Patricia Seitz, sociology instructor; Ph.D.
 Wayne Shruballs, English instructor; Ph.D.
 Leslie Nelson Shultis, music instructor; M.Mus.
 Janet Smith, computer science instructor; Ph.D.
 Peter Steinbach, mathematics instructor; M.A.
 Kelly Sullivan, biology instructor; M.A.
 James Swan, biology instructor; M.S.
 J. Ross Thomas, economics instructor; Ph.D.
 Dennis Vargo, mathematics instructor; M.A.
 Lucy Vigil, Spanish instructor/chairman; Ph.D.
 Marie Villarba, chemistry instructor; Ph.D.
 Gary Walters, computer science instructor; M.A.
 LaVonne Wahl, communication studies instructor; Ph.D.
 Kathleen Waymire, art instructor; Ph.D.
 Shawn Wright, biology instructor; M.S.

BUSINESS OCCUPATIONS

<http://www.tvi.cc.nm.us/bod>

224-3811

The mission of the Business Occupations Department is: *Building Business Careers*. The Business Occupations Department provides education, training and skills you can use to achieve career goals. The department focuses on superior customer service, technology in the classroom, distance learning, student recruitment, student retention, and faculty professional development as it serves a diverse population of students who will participate in business strategies for the next century. Offerings include department certificates, certificate programs, associate of applied science degrees, and an associate of arts degree.

Business Occupations classes may be scheduled during the day, evening, and/or Saturday and Sunday at all four TVI campuses, at arranged on-site locations, and through distance learning delivery methods. The Business Occupations Department Weekend Business School offers Friday evening, Saturday and Sunday classes.

Some programs, courses, and elective courses are not offered every term. A minimum of 12 students is

required for first term and elective courses. A student who registers for a Business Occupations program may be required to take English, reading, and/or math placement tests. Advanced students may earn credit for on-the-job-training through cooperative education and internship courses.

The New Mexico Two-Year/Four-Year Business Articulation Matrix, as well as articulation agreements with several New Mexico postsecondary educational institutions offer course transfer opportunities for Business Occupations students (directors have details).

Business Occupations programs that have received national accreditation are (followed by the accrediting organization):

- ★ **Accounting** (Association of Collegiate Business Schools and Programs)
- ★ **Business Administration** (Association of Collegiate Business Schools and Programs)
- ★ **Computer Information Systems** (Association of Collegiate Business Schools and Programs)

- * **Court Reporting** (National Court Reporters Association)
- * **Legal Assistant Studies** (American Bar Association)
- * **Office Administration** (Association of Collegiate Business Schools and Programs)
- * **Pre-Management** (Association of Collegiate Business Schools and Programs)

The North Central Association of Colleges and Schools, TVI's accrediting agency, requires that the Business Occupations Department provide outcomes assessment for each of its program areas. All Business Occupations students are required to participate in outcomes assessment. Test scores do not affect graduation status. Directors have information regarding outcomes assessment testing procedures.

All occupational courses must be passed with a minimum grade of C to meet prerequisite requirements and certificate and degree requirements.

All Business Occupations Department students do not have the option of taking occupational courses on a

credit/no credit basis except the following Court Reporting courses: CR 104, CR 210, CR 220, and CR 230. Students in those Court Reporting courses who are receiving financial aid should communicate with the Financial Aid Office before selecting a grade option.

Challenge exams are available for many Business Occupations Department courses. Students wishing to challenge a course should contact the director in their area of study.

BUSINESS RESOURCE CENTERS

The Business Resource Centers (BRC) at Main and Montoya campuses support student success and retention in Business Occupations programs. The BRCs provide opportunities for students to practice and strengthen skills presented in the classroom, complete course assignments, receive individual assistance, and utilize resources and state-of-the-art technology to create projects and presentations.

FULL-TIME INSTRUCTIONAL PERSONNEL

Lois Carlson, CPA, dean; Ph.D.

Susie Cutler, associate dean; M.A.

Don Adams, computer information systems instructor; M.S.Mgt.

Dawn Addington, CPA (inactive), accounting instructor; M.Acc.

Cheryl Bartlett, CPA, accounting instructor; M.B.A.

David Bency, CPA, accounting instructor; B.B.A.

Janice Benson, computer information systems instructor; Ph.D.

David Bergsland, business graphics and communications instructor; B.F.A.

Mary Burt, office administration instructor; M.A.

Wallace Cates, computer information systems instructor; B.S.

Leigh Anne Chavez, legal assistant studies instructor; J.D.

Paul Clark, computer information systems instructor; M.S.

Annette Duvall, computer information systems instructor; M.S.

Michael Felker, e-commerce instructor; M.B.A.

Anita H. Frantz, director of legal studies; J.D.

Jean Gallegos, accounting instructor; M.B.A.

Hossein Giah, business administration instructor; M.B.A.

Patricia Gomez, CRI, court reporting instructor; A.A.S.

Fred Gordon, accounting instructor; M.A.

Marcella Green, computer information systems instructor; M.A.

Nadine Grosjean, office administration instructor; M.A.

Sue Gunckel, CPA, accounting instructor; M.S.W.

Catherine Hain, computer information systems instructor; M.B.A.

Gerald Heater, computer information systems instructor; M.S.

Mary Carole Helton, computer information systems instructor; M.P.A.

Susan Herrington, computer information systems instructor; M.A.

Debbie Hester-Rael, CPA, accounting instructor; B.S., B.A.

Bob Hildenbrand, CPA, accounting instructor; M.S.

Marilyn Konnick, office administration instructor; M.A.

Deborah LaPointe, court reporting instructor; M.S.

Kathleen Leistikow, business administration instructor; J.D.

Marvin Lozano, international business instructor; M.S.

Marilyn Maclay, office administration instructor; M.A.

Gail Maddoux, business administration instructor; M.A., M.B.A.

Gloria Madrid, office administration instructor; Ed.D.

Linda Maggart, office administration instructor; B.S.

Joyce Matthews, CPA, accounting instructor; M.A.

Carmen Mendoza, CRI, RMR, CRR, CCR, court reporting instructor; A.A.S.

Susanna Merchant, office administration instructor; M.A.

Dai Nguyen, legal assistant studies instructor; J.D.

Sheryl Pratt, computer information systems instructor; B.S.

William Price, accounting instructor; M.Acc.
William H. Putman, legal assistant studies instructor; J.D.
Robert T. Reeback, legal assistant studies instructor; J.D.
Virginia Rich, office administration instructor; M.Ed.
David Steele, business administration instructor; M.B.A.
Anita Sterchi, office administration instructor; M.A.
Judith Teak, office administration instructor; M.A.
Linda Turpen, computer information systems instructor; M.B.A.
Dan Valles, director of business information technology; M.B.A.

Margie Vance, business administration instructor; M.B.A.
Wallace Van Dusen, computer information systems instructor; M.B.A.
Anita Vaughn, office administration instructor; M.P.A.
José Angel Vélez, computer information systems instructor; B.A.
Joe Webster, CMA, accounting instructor; M.B.A.
Michael Williams, hospitality and tourism instructor; B.A.
Kim Wong, business administration instructor; M.S., M.B.A., J.D.

HEALTH OCCUPATIONS

<http://www.tvi.cc.nm.us/health>

224-4111

The Health Occupations Department provides entry-level training and skill upgrading in a variety of medical fields as well as children, youth and family development and elementary education.

Special courses, for which a department certificate of completion is awarded, also are offered. At least 12 students must sign up for a special course before it can be offered, and each student must meet all prerequisites. These courses may not be offered every year. Students enrolled in these courses are not eligible to receive financial aid or Veterans Administration benefits.

Classes are held at Main, South Valley, Rio Rancho, and Montoya Campuses; students may have supervised patient practicums and observations at community agencies.

Enrollment: All Health Occupations programs except Nursing Assistant require a high school diploma or equivalent and completion of the TVI placement test. Most programs also have prerequisites. Health

Occupations programs require that students be in good physical condition, free of health conditions that could endanger themselves or others. Students may be required to have a physical exam. Credit by examination (challenge) is available for selected courses. Program directors have detailed information.

Grading Policy: It is strongly recommended that all required courses be taken for a traditional letter grade. Most courses within Health Occupations must be taken for a traditional letter grade; the credit/no credit option may only be used for selected courses. A grade of C or better is required in all occupational courses required for graduation. All prerequisite courses require a grade of C or better.

Handbooks: For specific policies and procedures regarding classroom expectations, clinical experiences, learning laboratories, standards of practice and professional codes of ethics, students should consult their programs' student handbook.

FULL-TIME INSTRUCTIONAL PERSONNEL

Sally J. Pearson, dean; MSN
John Blewett, RRT, RCP, respiratory therapy instructor, BUS
Teresa Brito-Asenap, program director, child, youth and family development, MA
Karen Connors, RN, nursing instructor, MSN
Lynne Curtis, RN, chair health unit clerk program, MEd
Patricia Everett, RN, chair of the surgical programs, MSN
Charles Fatta, RRT, RCP, clinical coordinator, respiratory therapy program, MBA
Pamela Fletcher, R.D./L.D., nutrition instructor, MA

Richard Gentile Jr., RRT, RCP, director, respiratory therapy program, M.Ed.
David Gordon, RRT, RCP, respiratory therapy instructor, MA
Patricia Hamilton, RN, nursing instructor, MSN
Regina Janke, RN, nursing instructor, MSN
Monya Kmetz, MT (ASCP), program director, medical laboratory technician, MA
Patricia Loflin, RN, nursing instructor, MSN
Lorraine Lowen, RN, nursing instructor, MSN
Sandra Luck, child, youth and family development instructor, MA
Janet Mason, RN, nursing instructor, MSN

Ruth McCall, MT (ASCP), CLS (NCA), program director, phlebotomy and clinical lab assistant, BS
Paulette McNeill, RN, nursing instructor, MSN
Susan Michalske, RN, nursing instructor, MSN
Gloria Monek-Kovanis, RN, nursing instructor, MSN
Susan Morgan, RN, nursing instructor, MN
Mary Moser-Gautreaux, RN, nursing instructor, MSN
Delores Pederson, RN, nursing assistant instructor, BSN
Marian Sawyer, RN, nursing instructor, MSN

Douglas Scribner, chair of the pharmacy technician program, BA
Ann E. Sims, RN, program director, nursing assistant, BSN
Penelope Stanley, RN, nursing instructor, MN
Patricia Stephens, RN, director of nursing programs, MSN
Carol Winkles, RN, nursing instructor, MSN

TECHNOLOGIES

<http://tech.tvi.cc.nm.us>

224-3340

The high skilled, high-tech jobs of the 21st century will demand specialized entry-level training and skill upgrading, and the Technologies Department offers both, along with state-of-the-art equipment to support them.

Several programs offer concentrations so that students may specialize in their primary area of interest. The time necessary to complete most of the Technologies programs varies from 12 to 24 months if a student carries a full course load each term.

To enter Technologies courses, the student must meet the prerequisites of MATH 100B or equivalent, reading at a minimum of eighth-grade level and CP 176, Introduction to Technology Computer Applications, or equivalent. Technologies accepts BA 150 or CSCI 101 as equivalent to CP 176.

Challenge examinations are available for some courses numbered below 200. For information concerning transferability of vocational courses either to

or from TVI, students should see the appropriate director or program chair.

Optional courses are available to enhance the education of those students meeting the prerequisites. Optional courses and courses numbered 200 or above may not be offered every term and are subject to cancellation before the first day of the term due to insufficient enrollment; a minimum of 12 students is required.

Students in the Technologies programs are encouraged to join school clubs (also known as student groups). Clubs that are supported by the Technologies department are the Computer Technology Student Association, Society of Manufacturing Engineers (SME) and the Skills USA-VICA. Information is available from directors and program chairs.

Students working toward an associate degree or a certificate must earn a grade of C or better in all occupational courses to meet graduation requirements.

FULL-TIME INSTRUCTIONAL PERSONNEL

Richard Birkey, dean; Ed.D

Steve Benavidez, associate dean; M.A.

Ed Baca-Green, manufacturing technology instructor; B.S.I.E.

Gordon Bennett, electronics technology instructor; B.S.

Joseph Black, electronics technology instructor; M.P.A., M.S.E.E.

Bruce Bush, electronics technology instructor; B.S.

Phyllis Cece, architectural/engineering drafting technology instructor; B.A.

David Clauss, computer networking technology instructor; B.A.

Gail Collins, computing technology instructor; B.A.

Michael Cranney, web technology instructor; M.A.

Tom Darling, construction management instructor; B.A.

Hadie Fotouhie, engineering technology instructor; M.S.

Steven Fraker, architectural/engineering drafting technology instructor; M.A.

Hayward Franklin, computing technology instructor; Ph.D.

Joel Gellman, electronics technology instructor; B.S.I.E.

Terry Gonzales, computing technology instructor; B.A.

Salvadora Gonzalez, director, electronics and manufacturing technologies; M.A., M.S.

Gordon Hall, registered architect, architectural/engineering drafting technology instructor; M.Arch.

James Hart, computer networking instructor; B.U.S.

Raymond Isengard, electronics technology instructor

Barbara Johnston, computing technology instructor; M.A., M.S.

Brenda Judd, computing technology instructor; M.B.A.

Peter Kalitsis, registered architect, architectural/engineering drafting technology instructor; B.A.
Paul Kirkpatrick, computing technology instructor; B.U.S.
Eric Krosche, manufacturing technology instructor; M.S.
Fred Lavender, design drafting engineering technology instructor; M.S.
Darrell Leland, computer animation instructor; M.A.
Fabian Lopez, electronics technology instructor
Mildred Lovato, achievement coach; M.A.
Earnestine Mitchell, computing technology instructor; B.A.
Stephen Parratto, computing technology instructor; M.S.
Paul Quan, director, computing technology; M.S.
Jimmy Reed, computing technology instructor; B.S.

Laurence Rose, computer animation instructor; M.S.
David Ruff, construction management instructor; B.A.
Susan Sujka, electronics technology instructor; B.S.
Paul Trujillo, electronics technology instructor; B.S.E.E.
Theodore Trujillo, electronics technology instructor; B.S.
Ramon Vigil, electronics technology instructor; B.A.
Wesley Wesbrooks, electronics engineering technology instructor; B.A.
Michael White, electronics engineering technology instructor; M.S.E.E.
Elizabeth Wilkinson, computer animation instructor; B.A.
Mary Jane Willis, manufacturing technology instructor; M.A.

TRADES & SERVICE OCCUPATIONS

<http://www.tvi.cc.nm.us/trades>

224-3711

The Trades & Service Occupations Department provides a technical learning environment dedicated to the preparation of individuals for challenging positions in the community work force. Most classes are held at the Main Campus, and there are opportunities for hands-on learning at off-campus sites. The department offers certificates and degrees that prepare individuals for entry-level positions, job advancement and technical skill upgrading.

Students are encouraged to participate in Skills USA, a national student organization whose activities are an integral part of the curriculum.

Cooperative education allows qualified students the option to complete course work via a related entry-level wage job. A written agreement with specific objectives is signed by the student, TVI and the employer. The cooperative education option may not qualify students for financial aid.

Students must provide their own personal protective equipment (hard hat and safety glasses or goggles) and lab clothes which are appropriate and comply with Trades & Service Occupations Department and/or Occupational Safety and Health Act (OSHA) standards. Hard hats must meet ANSI Standard Z89.1-1969. Safety glasses or goggles must meet ANSI Standard Z87.1-1979. Students are trained to OSHA safety standards for their respective area.

Students planning to transfer to four-year schools should meet with TVI personnel to discuss transferability of courses.

Most Trades & Service Occupations programs require that students be in good physical condition and be free of allergies or health conditions.

Most programs require basic hand tools. Tool lists with approximate costs and purchase deadlines are provided by instructors at the beginning of each term.

Students working toward an associate degree or a certificate must earn a grade of C or better in all occupational courses to meet graduation requirements.

OPTIONAL COURSES

Optional courses are offered in remodeling (course prefix: BT), small engine skills improvement (SCSE), employment skills (SSKL) and Skills USA (VICA). At least 12 students must sign up and instructional space, instructor and budget must be available before an optional course can be offered.

APPRENTICESHIPS

The Trades & Service Occupations Department, in conjunction with industry groups, offers apprenticeship-related instruction for persons currently employed in commercial carpentry, electrical trades, iron worker, plumbing and sheet metal (see page 44).

FULL-TIME INSTRUCTIONAL PERSONNEL

Joseph J. Rodman, dean; M.Ed.
Paula Fisher, associate dean; M.A.
Alain Archuleta, Skills USA chair; B.S.

Earnest Arko, construction technology chair; B.A.
Paul Baxter, truck driving instructor; B.S.
Paul Beck, machine tool technology instructor; B.S.

Salvatore Benevegna, air conditioning, heating and refrigeration instructor; B.A.
Noel Binford, safety chair; B.S.
Timothy Brown, electrical trades instructor; B.S.
Glen Bugge, automotive technology instructor; B.S.
Darrell Creel, truck driving chair; B.A.
Kevin Daugherty, public safety chair; J.D.
James DeMarcus, mechanical technology chair; B.S.
Patrick Dunworth, criminal justice instructor; B.S.
John P. Gabaldon, electrical trades instructor; B.S.
Shirley Garcia, cosmetology instructor, RI
Scott Henriksen, automotive technology instructor; M.A.
Walter Hensley, welding instructor
Dave Hinchcliffe, carpentry instructor; B.S.
John Hostak, service occupations director; M.S.
Joyce Jones, professional cooking instructor; B.S.
Michael Kavanaugh, fire science instructor; B.S.
Robert Kho, automotive technology instructor; B.A.
Barry King, environmental technology instructor; M.S.

Kerry Knoop, culinary arts instructor; B.A.
Samuel E. Lovelette, electrical trades instructor; B.S.
Mario Lozoya, welding instructor; B.U.S.
Elizabeth McGeehan, baking instructor; B.A.
Thomas J. Morris III, cosmetology/fitness chair; M.S.
Larry Mounger, transportation technology chair; B.S.
John Murray, construction/mechanical technology director; B.A.
Simon Nunez, Jr., plumbing instructor; B.S.
John Pierce, carpentry instructor; B.A.
Carmine Russo, culinary arts chair; B.S.
Jerry Sais, metals/transportation director; B.S.
Martin Samudio, professional cooking instructor; B.S.
Harold Senke, environmental technology instructor; B.S.
Lewis Steinberg, air conditioning, heating and refrigeration instructor
Greg Tolbert, air conditioning, heating and refrigeration instructor
Richard Warren, metals chair; B.S.
Charles R. Yonker, student academic achievement chair; B.S.

PROGRAMS OF STUDY

(In alphabetical order)

Program Name	Program Offering(s)	Page
Accounting	Certificate and Associate of Applied Science Degree	42
Adult Education Basic Skills/GED Test Preparation English as a Second Language Job/Life Skills	Non-Credit Skills Courses	27
Air Conditioning, Heating and Refrigeration	Certificate and Degree Concentration	43, 100
Apprenticeships Commercial Carpentry Electrical Trades Iron Worker Plumbing Sheet Metal		44
Architectural/Engineering Drafting Technology	Certificate and Associate of Applied Science Degree	45
Automotive Service Fundamentals	Verification of Completion	46
Automotive Technology	Certificate and Degree Concentration	46, 127
Baking	Certificate	47
Bookkeeping	Certificate	48
Business Administration Continuous Quality Improvement Degree Concentration General Business Degree Concentration Merchandising Degree Concentration Real Estate Degree Concentration Small Business Management Degree Concentration	Certificate and Associate of Applied Science Degree	49
Business Computer Applications	Certificate and Degree Concentration	59
Business Graphics and Communication	Certificate and Associate of Applied Science Degree	51
Business Information Management	Certificate and Degree Concentration	59
Call Center Operations	Verification of Completion	52
Carpentry	Certificate	53
Child, Youth and Family Development Family Studies Degree Concentration Early Childhood Multicultural Education Degree Concentration Child Development Associate Credential	Certificate and Associate of Arts Degree	54
Clinical Laboratory Assistant	Certificate	57
Commercial Carpentry	Apprenticeship	44
Computer Animation	Certificate and Degree Concentration	63
Computer Information Systems Business Computer Applications Degree Concentration Business Information Management Degree Concentration Data Communications Management Degree Concentration Multimedia Degree Concentration	Certificate and Associate of Applied Science Degree	57

Program Name	Program Offering(s)	Page
Computer Programming	Certificate and Degree Concentration	62
Computing Technology	Certificate and Associate of Applied Science Degree	62
Business Computer Programming Degree Concentration		
Computer Animation Degree Concentration		
Construction Management Technology	Associate of Applied Science Degree	64
Construction Technology	Associate of Applied Science Degree	67
General Construction Degree Concentration		
Electrical Degree Concentration		
Continuous Quality Improvement	Verification of Completion and Degree Concentration	67, 51
Cosmetology	Associate of Applied Science Degree	67
Court Reporting	Associate of Applied Science Degree	69
Criminal Justice	Associate of Applied Science Degree	70
Critical Care Nurse Internship	Special Course	72
Culinary Arts	Associate of Applied Science Degree	72
Data Communications Management	Degree Concentration	58
Data Entry	Verification of Completion	73
Design Drafting Engineering Technology	Associate of Applied Science Degree	73
Developmental Education	Credit College-preparatory Courses	27
English		
English as a Second Language		
Mathematics		
Reading and Study Skills		
Science		
Occupational Introduction/Support		
Diagnostic Medical Sonography	Associate of Science Degree	74
Diesel Equipment Technology	Certificate and Degree Concentration	75, 127
Early Childhood Multicultural Education	Degree Concentration	55
E-Commerce	Certificate and Associate Degree	76
Electrical Trades	Apprenticeship, Certificate and Degree Concentration	44, 77, 66
Electronics Engineering Technology	Associate of Applied Science Degree	78
Electronics Technology	Certificate and Associate of Applied Science Degree	79
General Electronics Degree Concentration		
Process Control Degree Concentration		
Elementary Education	Associate of Arts Degree	81
Bilingual Degree Concentration		
Language Arts Degree Concentration		
Special Education Degree Concentration		
Emergency Medical Technician	Special Course	83
Entrepreneurship	Verification of Completion	83
Environmental Technology	Associate of Applied Science Degree	83
Facilities Maintenance	Degree Concentration	98
Family Studies	Degree Concentration	54

Program Name	Program Offering(s)	Page
Financial Services	Certificate and Associate of Applied Science Degree	84
Fire Science	Associate of Applied Science Degree	86
Fitness Technician	Certificate	87
Food Service Management	Certificate	88
General Business	Degree Concentration	49
General Construction	Degree Concentration	65
General Electronics	Degree Concentration	80
General Manufacturing	Degree Concentration	100
Healthcare Technician	Certificate	88
Health Unit Clerk	Certificate	89
Hospitality and Tourism	Certificate, Associate of Applied Science Degree and Degree Concentration	89
International Business	Certificate, Associate of Applied Science Degree and Degree Concentration	91
Iron Worker	Apprenticeship	44
Judicial Studies	Certificate	92
Legal Assistant Studies	Associate of Applied Science Degree	94
Liberal Arts	Associate of Arts Degree	95
Licensed Practical Nurse Refresher	Special Course	96
Machine Tool Technology	Certificate and Degree Concentration	97, 104
Manufactured Housing Set-up	Certificate	97
Manufacturing Skills	Verification of Completion	98
Manufacturing Technology	Certificate and Associate of Applied Science Degree	98
	Facilities Maintenance Degree Concentration	
	Semiconductor Manufacturing Degree Concentration	
	General Manufacturing Degree Concentration	
Mechanical Technology	Associate of Applied Science Degree	100
	Air Conditioning, Heating and Refrigeration Degree Concentration	
	Plumbing Degree Concentration	
Medical Office Administration	Degree Concentration	112
Medical Laboratory Technician	Associate of Science Degree	102
Metals Technology	Associate of Applied Science Degree	104
	Machine Tool Technology Degree Concentration	
	Welding Degree Concentration	
Multimedia	Degree Concentration	57
Networking Technology	Certificate and Associate of Applied Science Degree	105
	Network Systems Management Degree Concentration	
	Network Technical Support Degree Concentration	
Nursing	Associate of Science Degree	107
Nursing Assistant	Certificate	111
Nursing Home/Home Health Attendant	Special Course	107

Program Name	Program Offering(s)	Page
Office Administration Office Technology Degree Concentration Medical Degree Concentration	Certificate and Associate of Applied Science Degree	112
Office Assistant	Certificate	114
Office Technology	Degree Concentration	112
Perioperative Nurse Specialist	Special Course	111
Pharmacy Technician	Certificate	115
Phlebotomy	Certificate	116
Plumbing	Apprenticeship, Certificate and Degree Concentration	45, 116, 101
Practical Nursing	Certificate	109
Pre-Engineering	Associate of Science Degree	117
Pre-Management	Associate of Arts Degree	118
Process Control	Degree Concentration	80
Professional Cooking	Certificate	119
Real Estate	Verification of Completion and Degree Concentration	120, 49
Registered Nurse Refresher	Special Course	120
Residential Superintendent	Verification of Completion	64
Residential Wiring	Certificate	121
Respiratory Therapy	Associate of Science Degree	122
Retail Management	Certificate and Associate of Applied Science Degree	124
Semiconductor Manufacturing	Degree Concentration	99
Sheet Metal	Apprenticeship	45
Small Business Management	Degree Concentration	49
Stenotranscription	Certificate	125
Surgical Technology	Certificate	126
Transportation Technology Automotive Technology Degree Concentration Diesel Equipment Technology Degree Concentration	Associate of Applied Science Degree	127
Truck Driving	Certificate	128
Web Technology	Certificate and Associate of Applied Science Degree	129
Welding	Certificate and Degree Concentration	130, 105

2000 CERTIFICATE/DEGREE PROGRAMS

(by Department)

Arts & Sciences

Liberal Arts, AA degree

Business Occupations

Accounting, certificate and AAS degree

Bookkeeping, certificate

Business Administration, certificate and ASS degree

Business Graphics and Communication, certificate and AAS degree

Computer Information Systems

(formerly Microcomputer Management),

certificate and AAS degree

Court Reporting, AAS degree

E-Commerce, certificate and AAS degree

Financial Services (formerly Banking), certificate and AAS degree

Food Service Management, certificate

Hospitality and Tourism, certificate and AAS degree

International Business, certificate and AAS degree

Judicial Studies, certificate

Legal Assistant Studies, AAS degree

Office Administration (formerly Administrative Assistant), certificate and AAS degree

Office Assistant, certificate

Pre-Management, AA degree

Retail Management, certificate and AAS degree

Stenotranscription, certificate

Health Occupations

Child, Youth and Family Development, certificate and AA degree

Clinical Laboratory Assistant, certificate

Diagnostic Medical Sonography, AS degree

Elementary Education, AS degree

Healthcare Technician, certificate

Health Unit Clerk, certificate

Medical Laboratory Technician, AS degree

Nursing, AS degree

Nursing Assistant, certificate

Pharmacy Technician, certificate

Phlebotomy, certificate

Practical Nursing, certificate

Respiratory Therapy, AS degree

Surgical Technology, certificate

Technologies

Architectural Engineering Drafting Technology, certificate and AAS degree

Computing Technology, certificate and AAS degree

Construction Management Technology, AAS degree

Design Drafting Engineering Technology, AAS degree

Electronics Engineering Technology, AAS degree

Electronics Technology, certificate and AAS degree

Manufacturing Technology, certificate and AAS degree

Networking Technology, certificate and AAS degree

Pre-Engineering, AS degree

Web Technology, certificate and AAS degree

Trades & Service Occupations

Air Conditioning, Heating, and Refrigeration, certificate

Automotive Technology, certificate

Baking, certificate

Carpentry, certificate

Construction Technology, AAS degree

Cosmetology, AAS degree

Criminal Justice, AAS degree

Culinary Arts, AAS degree

Diesel Equipment Technology, certificate

Electrical Trades, certificate

Environmental Technology, AAS degree

Fire Science, AAS degree

Fitness Technician, certificate

Machine Tool Technology, certificate

Manufactured Housing Set-up, certificate

Mechanical Technology, AAS degree

Metals Technology, AAS degree

Plumbing, certificate

Professional Cooking

(formerly Quantity Foods Prep), certificate

Residential Wiring, certificate

Transportation Technology, AAS degree

Truck Driving, certificate

Welding, certificate

2000 CERTIFICATE/DEGREE PROGRAMS

(Accredited by Outside Agencies/Organizations)

<i>Department/Programs</i>	<i>Accrediting Agencies/Organizations</i>
Business Occupations	
Accounting , certificate and AAS degree	Assn. of Collegiate Business Schools and Programs
Business Administration , certificate and ASS degree	Assn. of Collegiate Business Schools and Programs
Computer Information Systems (formerly Microcomputer Management), certificate and AAS degree	Assn. of Collegiate Business Schools and Programs
Court Reporting , AAS degree	National Court Reporters Association (NCRA)
Legal Assistant Studies , AAS degree	American Bar Association (ABA)
Office Administration (formerly Administrative Assistant), certificate and AAS degree	Assn. of Collegiate Business Schools and Programs
Pre-Management , AA degree	Assn. of Collegiate Business Schools and Programs
Health Occupations	
Medical Laboratory Technician , AS degree	National Accreditation Agency for Clinical Laboratory Sciences
Nursing , AS degree	National League for Nursing Accreditation Commission (NLNAC) Approved by the New Mexico State Board of Nursing
Practical Nursing , certificate	National League for Nursing Accreditation Commission (NLNAC) Approved by the New Mexico State Board of Nursing
Respiratory Therapy , AS degree	Commission on Accreditation of Allied Health Education Programs (CAAHEP) Committee on Accreditation for Respiratory Care (COARC)
Technologies	
Construction Management Technology , AAS degree	American Council for Construction Education
Design Drafting Engineering Technology , AAS degree	Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET)
Electronics Engineering Technology , AAS degree	TAC/ABET
Trades & Service Occupations	
Air Conditioning, Heating, and Refrigeration , certificate	National Automotive Technicians Education Foundation (NATEF)
Culinary Arts , AAS degree	American Culinary Federation (ACF)
Truck Driving , certificate	Professional Truck Driver Institute of America (PTDIA)

ACCOUNTING

Business Occupations Department

The Accounting program is an excellent field for persons seeking a challenging career that has good potential for advancement. Many of the Business Occupations Department's accounting courses fulfill the education requirement for the Certified Public Accountancy (CPA) and Certified Management Accounting (CMA) exams. However, a bachelor's degree is required for both exams and must be obtained from an accredited four-year postsecondary educational institution.

Information about this program is available from the director at 224-3821 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/associate of applied science degree in Accounting includes:

Certificate

Term 1: ACCT 101, 111, BA 113 or 133, BA 150

Term 2: ACCT 102, 170, 180, BA 211, BA 131 or COMM elective

Term 3: ACCT 240 or 150/151*, ACCT 254, 256, BA 121 or ENG 101, CIS 155, 156, accounting elective

Term 4: ACCT 255, A&S electives

Additional Degree Requirements

Term 4: ACCT 201, 260, MATH 119 or higher (except MATH 215 and 296)

Term 5: A&S electives

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101 or ACCT 101A and ACCT 101B	Accounting I	6
ACCT 102	Accounting II	3
ACCT 111	Business Math	3
ACCT 170	Payroll Accounting	3
ACCT 180	Accounting Applications	3
*ACCT 240	Tax Accounting I (ACCT 240 required for degree) or ACCT 150/151	3
ACCT 254	Electronic Spreadsheets	3
ACCT 255	Computerized Accounting	3
ACCT 256	Management Database Applications (5 weeks)	1
BA 113 or BA 133	Introduction to Business Principles of Management	3
BA 121 or ENG 101	Business English College Writing (ENG 101 required for degree)	3
BA 131 or COMM Elective (COMM recommended for degree)	Business Interpersonal Skills (7.5 weeks)	2-3
BA 150 or CP 176 or CSCI 101	Introduction to Computers Introduction to Technology Computer Applications Computer Literacy	4
BA 211	Business Law	3
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
	Approved Accounting Elective(s)	3
	**Approved A&S Electives	0-6
	Total Required for Certificate	48-55

*ACCT 150/151 may be used for certificate in lieu of ACCT 240.

**For a certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

Additional Degree Requirements

ACCT 201	Intermediate Accounting I	4
ACCT 260	Cost Accounting	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
	Arts & Sciences electives	3-9
	Total Required for Degree	61-75

Approved Electives for Accounting

ACCT 150	VITA Tax Preparation	2
ACCT 151	VITA Tax Internship	1
ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
ACCT 158	Intermediate Quickbooks (5 weeks) [previously BA 159]	1
ACCT 201	Intermediate Accounting I	4
ACCT 202	Intermediate Accounting II	4
ACCT 241	Tax Accounting II	3
ACCT 260	Cost Accounting	3
ACCT 270	Governmental Accounting	3
ACCT 271	Auditing	3
ACCT 280	Managerial Accounting	3
ACCT 296	Accounting Topics	1-3
ACCT 298	Internship	4
ACCT 299	Cooperative Education	4
BA 215	Money and Banking	3
	CIS Course(s) (except CIS 150 and 151)	1-3

Approved Arts and Sciences Electives

ECON 200	Macroeconomics	3
ECON 201	Microeconomics	3
ENG 101	College Writing (if not previously used in program)	3
ENG 102	Analytic and Argumentative Writing	3
ENG 219 or 220	or COMM Elective (if not previously used in program)	3
	Science	3-7
	Social or Behavioral Science	3
	Humanities	3
	Language, non-English	3-4

AIR CONDITIONING, HEATING AND REFRIGERATION

Trades & Service Occupations Department

The Air Conditioning, Heating and Refrigeration program prepares students for entry into the installation, maintenance and service field. With on-the-job experience and field training, the graduate of this program should be able to advance quickly. Courses also may be applied toward a degree in Mechanical Technology.

Training includes safety, installing mechanical equipment, piping and electrical controls, servicing various air conditioning, heating and refrigeration components, troubleshooting systems and performing required preventive maintenance. Most activities take place on campus, but some take place at off-campus building sites and are an integral part of the curriculum.

Students must be free of chronic respiratory diseases and allergies to sheet metal fluxes and metals and must have normal color differentiation. There are fees for EPA certification and industry competency exams for all refrigeration and air conditioning technicians. The certification is required before graduates enter the work force.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

A suggested schedule includes:

Term 1: ACHR 131, 132,133,134,135,136, 137

Term 2: ACHR 151,152,153,154,155,156

Term 3: ACHR 210,211,212,213,214,215, 216

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACHR 131	Refrigeration Fundamentals	2
ACHR 132	Basic Electricity	2
ACHR 133	Refrigerant Management	2
ACHR 134	Motors and Controls	2
ACHR 135	Refrigeration Applications	2
ACHR 136	Control Circuit Application	2
ACHR 137	Code and Safety Requirements I	1
ACHR 151	Air Conditioning	2
ACHR 152	Air Conditioning Controls	2
ACHR 153	Gas Heating Systems	2
ACHR 154	Gas Heating Control Systems	2
ACHR 155	Commercial Refrigeration	2
ACHR 156	System Design	3
ACHR 210	Pumps and Valves	2
ACHR 211	Basic Hydronic Principles	2
ACHR 212	Hot Water and Steam Generation Systems	2
ACHR 213	Controls I	2
ACHR 214	Chilled Water Systems	2
ACHR 215	Controls II	2
ACHR 216	Code and Safety Requirements II	1
	Total	39

Optional Courses

ACHR 171L	Basic Refrigeration Maintenance	3
ACHR 172L	Basic Air Conditioning, Heating and Refrigeration	3
ACHR 173L	Commercial Refrigeration	3

APPRENTICESHIPS

Trades & Service Occupations Department

Note: Students enrolled in apprenticeships may not qualify for financial aid or Veterans Administration benefits. Apprenticeship courses are taken in order starting with “A” (see Schedule of Classes). Department approval is required to register for advanced courses not in the appropriate sequence.

Students pay the TVI registration fee each term.

COMMERCIAL CARPENTRY APPRENTICESHIP

The Commercial Carpentry Apprenticeship (course prefix CCAP) for persons currently employed in the industry is offered in conjunction with the Rio Grande Chapter of Associated Builders and Contractors Inc. (ABC).

The program provides related classroom instruction. Students must purchase textbooks and instructional materials through the local ABC chapter.

ELECTRICAL TRADES APPRENTICESHIP

The Electrical Trades Apprenticeship (course prefix ETAP), for persons currently employed full-time in the electrical industry, is offered in conjunction with the Independent Electrical Contractors (IEC) and the Rio Grande chapter of Associated Builders and Contractors Inc. (ABC).

The program provides related classroom instruction. Students must purchase books and instructional materials through the IEC office.

IRON WORKER APPRENTICESHIP

The Iron Worker Apprenticeship (course prefix IWAP) for persons currently employed in the industry is offered in conjunction with the Rio Grande chapter of Associated Builders and Contractors Inc. (ABC) and Iron Workers Local 495.

The program provides related classroom instruction. There is a TVI registration fee each term. Students must purchase textbooks and instructional materials through the local ABC chapter and Iron Workers Local 495.

PLUMBING APPRENTICESHIP

The Plumbing Apprenticeship (course prefix PLAP), for persons currently employed full-time in the mechanical trades (plumbing) industry, is offered in conjunction with the Rio Grande chapter of Associated Builders and Contractors Inc. (ABC).

Students must purchase textbooks and instructional materials through the local ABC chapter.

SHEET METAL APPRENTICESHIP

The Sheet Metal Apprenticeship (course prefix SMAP), for persons currently employed full-time in the sheet metal industry, is offered in conjunction with the Rio Grande Chapter of Associated Builders and Contractors Inc. (ABC).

The program provides related classroom instruction. Students must purchase textbooks and instructional materials through the local ABC chapter.

ARCHITECTURAL/ENGINEERING DRAFTING TECHNOLOGY

Technologies Department

Architectural/Engineering Drafting Technology offers career preparation for persons with a strong interest in building design and construction.

The program integrates mathematics, technical writing and blueprint reading into the technical courses at all levels. Computer applications are emphasized throughout the program. The curriculum includes the principles of architectural and engineering graphics and the theory and practice of construction technology. To prepare students for work in the construction industry, the development and use of communication, teamwork and problem-solving skills are incorporated throughout the program.

Graduates are prepared for entry-level jobs as architectural or engineering drafting technicians in residential and commercial construction and for estimating and sales positions with contractors, fabricators and suppliers with the opportunity for advancement into jobs with increasing responsibility and wider scope.

To enter Architectural/Engineering Drafting Technology courses the student must meet the prerequisites of MATH 100B, ENG 100, reading at a minimum of eighth-grade level, CP 176 or equivalents.

Students must purchase their own drafting tools and construction hard hats.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3351.

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
Term 1		
ARDR 107L	Architectural Drafting I	4
ARDR 108	Architectural Mathematics	3
ARDR 109	Building Materials and Methods I	3
ARDR 180	Fundamentals of Computer-assisted Drafting	3
Term 2		
ARDR 115	Building Materials and Methods II	3
ARDR 213	CAD Analysis	4
ARDR 214L	Architectural CAD Drafting II	7
Term 3		
ARDR 119L	Architectural CAD Drafting III	7
ARDR 182L	Advanced CAD	2
ARDR 208L	Architectural Design	2
ARDR 221L	Architectural/Engineering Drafting Seminar	1
Total for Certificate		39

Additional Associate Degree Requirements

Term 3		
ART 260	Architectural History: Ancient Through Modern	3
PHYS 102	Introduction to Physics	3
Terms 4 and 5		
ARDR 113L	Site Analysis	2

ARDR 201	Structural Systems Analysis	4
ARDR 203L	Structural Systems CAD Drafting	5
ARDR 212L	M/E CAD Systems Drafting	5
ARDR 215	M/E Systems Analysis	4
COMM 232 or ENG 101	Business and Professional Communication Studies College Writing	3
MATH 120	Intermediate Algebra	3
PHIL 156	Logic and Critical Thinking	3
or PSY 105	Introduction to Psychology	3
	Total for Associate Degree	74

Optional Courses

ARDR 181	Intermediate Computer-assisted Drafting	3
ARDR 183	Fundamentals of Microstation Computer-Assisted Drafting	3
ARDR 184	Intermediate Microstation Computer-Assisted Drafting	3
ARDR 275	Design Applications for Interiors	3
ARDR 296	Topics	1-7
ARDR 297	Special Problems	1-7
ARDR 298	Internship	3
ARDR 299	Cooperative Education	3
CP 177L	Introduction to Computer Animation/Graphics	3
CP 178L	Computer Animation I	3
GIS 201	Introduction to Geographic Information Systems	3
GIS 202	Geographic Information Systems Software Applications I	3
GIS 203	Geographic Information Systems Software Applications II	3

AUTOMOTIVE SERVICE FUNDAMENTALS

Trades & Service Occupations Department

Completion of AUTC 121L, 122L, and 175L will provide the student with essential automotive skills needed by repair shops that specialize in maintenance and light repairs. The courses highlight workplace safety, industry repair procedures, tool and equipment use, and employment skills valued by employers. Students diagnose and service electrical, air conditioning and heating systems.

The brakes (AUTC 121L) and suspension (AUTC 122L) courses are part of the core automotive certificate program as well as the applied science degree in Transportation Technology.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits. Application for verification of completion may be made with the director upon successful completion of the three courses.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
AUTC 121L	Brake Systems	4
AUTC 122L	Suspension & Alignment	4
AUTC 175L	Service Fundamentals	4
	Total	12

AUTOMOTIVE TECHNOLOGY

Trades & Service Occupations Department

The Automotive Technology program is designed to prepare men and women for entry-level career positions as light truck and automobile technicians. This three-term course of study emphasizes appropriate testing and repair of automobiles as well as professionalism, strong work ethic and personal safety. Courses also may be applied toward a degree in Transportation Technology.

This program is certified by the National Automotive Technicians Education Foundation (NATEF) as a master certified program in all eight specialty areas: automatic transmission/transaxle, brakes, electrical/electronic systems, engine performance, engine repair, heating and air conditioning, manual drive train and axles, and suspension and steering.

Students attending the Automotive Technology program should be free from chronic respiratory problems and not be allergic to automotive chemicals and cleaning solvents. Most automotive industry employers require that their employees possess a valid driver's license and have a clean driving record. Students needing information on equivalents for past courses should see the program director.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

A suggested schedule per term includes:

Term 1: AUTC 121L, 122L, 123L, 126L

Term 2: AUTC 131L, 132L, 133L, 134L

Term 3: AUTC 221L, 222L, 223L

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
AUTC 121L	Brake Systems	4
AUTC 122L	Suspension and Alignment	4
AUTC 123L	Manual Transmissions	4
AUTC 126L	Automotive Electrical	4
AUTC 131L	Engine Repair	4
AUTC 132L	Automatic Transmissions	4
AUTC 133L	Automotive Electronics	4
AUTC 134L	Air Conditioning and Heating	3
AUTC 221L	Engine Performance I	4
AUTC 222L	Engine Performance II	4
AUTC 223L	Engine Performance III	4
	Total	43

Optional Courses

AUTC 170	Transportation Trades Machining	3
AUTC 172	Air Care Inspector	1
AUTC 174L	Alternative Fuels	2

BAKING

Trades & Service Occupations Department

This program prepares students for entry-level employment in restaurants, bake shops and institutional kitchens. Students learn safety and professional skills in a bake shop furnished with modern equipment. Courses also may be applied toward a degree in Culinary Arts.

Students must be free of chronic allergies. A physician's certificate must be presented to TVI before the start of lab classes stating that the student is free from tuberculosis in a transmissible form.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: BKNG 101, 102, 103L, 104L, 105L, 106L, FSMG 101A, 101B

Term 2: BKNG 111, 112L, 113L, 114L, 115L, computer course

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BKNG 101	Baking Theory I	2
BKNG 102	Food Service Math	2
BKNG 103L	Breads	2
BKNG 104L	Sweet Yeast Goods	2
BKNG 105L	Cake Batters	2
BKNG 106L	Pies and Pastries	2
FSMG 101A	Food Sanitation Principles	2

FSMG 101B	Applied Food Safety	1
BKNG 111	Baking Theory II	2
BKNG 112L	Yeast Doughs	2
BKNG 113L	Advanced Cake Batters	2
BKNG 114L	Pastries and Cookies	2
BKNG 115L	Icings and Fillings	2

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
	Total	29

BOOKKEEPING

Business Occupations Department

The Bookkeeping program provides basic accounting and computer skills for entry-level employment. The courses in this program may integrate into other Business Occupations programs.

Each student receives an introduction to broad business operations as well as the basics of bookkeeping, written and verbal communication, computer and accounting skills.

Information about this program is available from the director at 224-3821 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the Bookkeeping certificate includes:

Term 1: ACCT 101, 111, BA 150

Term 2: ACCT 102, 170, 180, BA 121 or ENG 101, BA 113 or BA 133

Term 3: ACCT 254, 298 or 299, BA 131 or COMM elective, approved elective

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101	Accounting I	
or ACCT 101A and ACCT 101B		6
ACCT 102	Accounting II	3
ACCT 111	Business Math	3
ACCT 170	Payroll Accounting	3
ACCT 180	Accounting Applications	3
ACCT 254	Electronic Spreadsheets	3
ACCT 298	Internship	
or ACCT 299	Cooperative Education	4
BA 113	Introduction to Business	
or BA 133	Principles of Management	3
BA 121	Business English	
or ENG 101	College Writing	3
BA 131	Business Interpersonal Skills (7.5 weeks)	
or COMM Elective		2-3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
	Approved Elective	3
	Total Required for Certificate	40-41

Approved Electives

ACCT 150	VITA Tax Preparation	2
ACCT 151	VITA Tax Internship	1
ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
ACCT 158	Intermediate Quickbooks (5 weeks) [previously BA 159]	1

ACCT 201	Intermediate Accounting I	4
ACCT 202	Intermediate Accounting II	4
ACCT 240	Tax Accounting I.....	3
ACCT 241	Tax Accounting II	3
ACCT 255	Computerized Accounting	3
ACCT 260	Cost Accounting.....	3
ACCT 270	Governmental Accounting	3
ACCT 271	Auditing	3
ACCT 280	Managerial Accounting.....	3
ACCT 296	Accounting Topics	1-3
	CIS Courses (except CIS 150 and 151)	1-3

BUSINESS ADMINISTRATION

Business Occupations Department

The Business Administration program provides students with the required business skills, knowledge and experience for the global business world.

An associate of applied science degree in Business Administration has the following concentrations: Continuous Quality Improvement (CQI), General Business, Merchandising, Real Estate and Small Business Management. All courses in the real estate concentration are approved by the New Mexico Real Estate Commission (NMREC) for either pre-licensing or continuing education requirements. All courses offered in real estate appraisal are approved by the New Mexico Real Estate Appraisers Board (NMREAB).

Associate of applied science degree students select from the list of elective courses in the concentrations to prepare for their employment goals.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/associate of applied science degree program in Business Administration includes:

Certificate

Term 1: ACCT 101 or 101A and 101B, 111, BA 113, 121 or ENG 101, BA 131

Term 2: ACCT 102, BA 122 or ENG 119, BA 133, 150

Term 3: ACCT 254, 157, BA 211, 222, 284, elective

Additional Degree Requirements

Term 4: Concentration, A&S courses

Term 5: Concentration, A&S courses

CERTIFICATE AND DEGREE REQUIREMENTS

Business Administration Core

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101 or ACCT 101A and ACCT 101B	Accounting I	6
ACCT 102	Accounting II	3
ACCT 111	Business Math	3
ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
ACCT 254	Electronic Spreadsheets	3
BA 113	Introduction to Business	3
BA 121 or ENG 101	Business English College Writing (required for degree)	3
BA 122 or ENG 119	Business Writing Technical Communications	3
BA 131 or COMM Elective	Business Interpersonal Skills (7.5 weeks)	2-3
BA 133	Principles of Management	3

BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
BA 211	Business Law	3
BA 222	Principles of Marketing	3
BA 284	Sales	3
	Approved Elective (see concentrations)	3-4

For a certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

Total Required for Certificate 46-48

Additional Degree Requirements

	COMM Elective	3
ECON 200	Macroeconomics or higher level	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Subtotal Required for Degree	58-61

CONCENTRATIONS FOR DEGREE (One Concentration Required)

Continuous Quality Improvement (CQI) Concentration

BA 101	Introduction to Quality Management (5 weeks)	1
BA 102	Fundamentals of Continuous Quality Improvement (5 weeks)	1
BA 103	Quality Tools (5 weeks)	1
BA 104	Team Building for Quality (5 weeks)	1
BA 105	Re-engineering for Quality (5 weeks)	1
BA 106	Quality Leadership (5 weeks)	1
	Approved Elective	3-4
	Total Required for Degree	67-71

General Business Concentration

BA 298	Internship	
or BA 299	Cooperative Education	4
	Two Approved Electives	6
	Total Required for Degree	68-71

Merchandising Concentration

BA 252	Customer Relations	3
BA 253	Retailing	
or BA 286	Advertising	3
CIS 255	Desktop Publishing [previously MMS 255]	3
	Total Required for Degree	68-70

Real Estate Concentration

BA 270	Real Estate Law	3
BA 271	Real Estate Practice	3
	Approved Elective	3
	Total Required for Degree	67-70

Small Business Management Concentration

BA 252	Customer Relations	3
BA 286	Advertising	3
ENTR103	Entrepreneurship	3
	Total Required for Degree	67-70

Approved Electives

AA 275	ICD-9-CM Coding	3
AA 276	CPT Coding	3
ACCT 150 or higher	.....	3
FSMG 101A	Food Sanitation Principles (7.5 weeks)	2
FSMG 101B	Applied Food Safety (7.5 weeks).....	1
	BA Courses	1-4
	CIS Courses	1-3
	ECM Courses	3
	ENTR Courses	3
	HT Courses	3
	IB Courses	3

BUSINESS GRAPHICS AND COMMUNICATION

Business Occupations Department

The Business Graphics and Communication program combines creative design, language skills and production training. Students are prepared to design documents for marketing, advertising, presentation, multimedia, web and print. Practical production and troubleshooting techniques are emphasized. The early courses focus on language skills and creativity. A keyboarding skill of 25 words per minute is required for entry into the program. Keyboarding courses are available in the Business Occupations Department.

Information about this program is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the Business Graphics and Communication certificate/associate of applied science degree includes:

- Term 1: ACCT 101A, ART 121, BA 150, 121, ENG 101
- Term 2: BGC 200, BA 113 or 133, CIS 170, 255, 260, 261, 262,
- Term 3: BGC 201, 202, 203, approved electives
- Term 4: BGC 204

Additional Degree Requirements

- Term 4: ART 106, COMM elective, ECON 101, MATH 119 or higher (except MATH 215 or 296)
- Term 5: ENG 221, approved ART elective

CERTIFICATE AND DEGREE REQUIREMENTS

Course No.	Course Name	Credit Hours
ACCT 101A	Accounting IA	3
ART 121	Two Dimensional Design	3
BA 113	Introduction to Business	
or BA 133	Principles of Marketing	3
BA 121	Business English	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
BGC 200	Digital Publishing	3
BGC 201	Advanced Digital Publishing	3
BGC 202	Digital Drawing	3
BGC 203	Production Photoshop	3
BGC 204	Digital Printing Production	3
CIS 170	Introduction to Multimedia [previously MMS 170]	3
CIS 255	Desktop Publishing [previously MMS 255]	3
CIS 260	Beginning Photoshop (5 weeks) [previously MMS 173]	1
CIS 261	Intermediate Photoshop (5 weeks) [previously MMS 174]	1
CIS 262	Advanced Photoshop (5 weeks) [previously MMS 175]	1

ENG 101	College Writing	3
	Approved Electives	6
	Total Required for Certificate	49

Additional Degree Requirements

ART 106	Basic Drawing	3
ECON 101	Introduction to Economics	3
ENG 221	Creative Writing: Fiction	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3–4
	COMM Elective	3
	Approved Art Elective	3
	Total Required for Degree	67–68

Approved Art Electives

ART 101	Introduction to Art	3
ART 122	Three-dimensional Design	3
ART 201	History of Art I	3
ART 202	History of Art II	3
ART 250	Modern Art	3
ART 251	Art of the American Southwest	3

Approved Electives

BA 122	Business Writing	3
BA 251	Retail Merchandising	3
BA 252	Customer Relations	3
BA 253	Retailing	3
BA 284	Sales	3
BA 286	Advertising	3
BGC 296	Topics	1–3
BGC 298	Internship	4
BGC 299	Cooperative Education	4
CIS 126	Desktop Publishing Using Word (5 weeks) [previously MMS 154]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CIS 164	Hypertext Markup Language (HTML) (5 weeks) [previously MMS 171]	1
CIS 165	Web Construction Coding (5 weeks) [previously MMS 172]	1
CIS 201	Hardware/Software Administration [previously MMS 201]	3
CIS 210	Office Management Software (5 weeks) [previously MMS 156]	1
CIS 270	Macromedia Authorware [previously MMS 270]	3
CIS 271	Macromedia Director [previously MMS 271]	3
CIS 275	Adobe Premiere [previously MMS 272]	3
CP 177L	Intro to Computer Animation/Graphics	3
CP 178L	Computer Animation I	3

CALL CENTER OPERATIONS

Business Occupations Department

The Business Occupations Department and the TVI Workforce Training Center collaborated to create the TVI Call Center College. This partnership allows students to receive credit for approved call center coursework attained through the Workforce Training Center.

Call Center Operations courses prepare students for entry-level positions such as customer service representative (technical and non-technical), reservation agent, collection agent, and telephone sales. The courses provide opportunities to develop keyboarding skills, basic computer skills and customer relations skills. This series of courses may be completed in 7.5 weeks or less based on student enrollment.

Students enrolled in these courses may not be eligible to receive financial aid or Veterans Administration benefits. Application for a verification of completion may be made with the director upon successful completion of the required courses.

Information about these courses is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
AA 101	Beginning Keyboarding (7.5 weeks)	3
AA 170	Business Telephone Techniques (5 weeks)	1
BA 131	Business Interpersonal Skills (7.5 weeks).....	2
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
	Approved Electives	3
	Total	10

Approved Call Center Operations Electives

AA 171	Working with the Challenging Customer (5 weeks)	1
AA 173	Time Management (5 weeks)	1
AA 296	Topics Course	1-3
BA 299A	Cooperative Education I	1
CIS 150	Excel Fundamentals (5 weeks)	1

The Customer Service Representative 90-hour training course offered through the TVI Workforce Training Center can substitute for AA 170, 171, and 173. Verification of completion is required.

CARPENTRY

Trades & Service Occupations Department

The Carpentry certificate program provides students with entry-level job skills for the construction industry. Tool safety and job-site safety training in compliance with OSHA standards are stressed. Classes meet on- and off-campus in labs designed for residential and commercial construction. Courses also may be applied toward a degree in Construction Technology.

Lab classes cover the fundamentals of site layout, foundations, framing, roof systems, exterior coverings, installation of doors and windows, interior finish, cabinet construction and installation, remodeling and tools. Theory classes present technical information, Uniform Building Code (UBC) regulations, blueprint reading and material analysis.

Students must be free of chronic respiratory disease and allergies or reactions to wood or wood products, construction adhesives, paints and solvents. Students must be able to lift 50 pounds. A valid driver's license and a good driving record are required by most employers. Students purchase all textbooks for this program.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

A suggested schedule per term includes:

Term 1: CARP 101, 102, 102L, 103, 103L, 104, 104L

Term 2: CARP 111, 112, 112L, 113, 113L, 114, 114L

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CARP 101	Carpentry Blueprint Reading I	4
CARP 102	Foundations Theory	1
CARP 102L	Foundations Lab	2
CARP 103	Framing Theory	1
CARP 103L	Framing Lab	2
CARP 104	Exteriors Theory	1
CARP 104L	Exteriors Lab	2
CARP 111	Carpentry Blueprint Reading II	4
CARP 112	Interior Finish Theory	1
CARP 112L	Interior Finish Lab	2
CARP 113	Cabinet-making and Millwork Theory	1

CARP 113L	Cabinet-making and Millwork Lab	2
CARP 114	Carpentry Remodel Theory	1
CARP 114L	Carpentry Remodel Lab	2
	Total	26

Optional Courses

CARP 170	Carpentry Fundamentals	3
CARP 171	Construction Trades Blueprint Reading	3

CHILD, YOUTH AND FAMILY DEVELOPMENT

Health Occupations Department

The Child, Youth and Family Development (CYFD) program facilitates the learning of theory and skills required for working with children, youth and families in certain settings. The two-year program includes classroom instruction at the Main, South Valley and Rio Rancho campuses as well as practical experience. The program leads to a certificate or an associate of arts degree with one of two specialty concentrations and/or prepares students for the national Child Development Associate (CDA) credential assessment:

- **Family Studies (FS)** (formerly CYFD) concentration, which facilitates the learning of theory and skills required for working in various settings with children from infancy through adolescence as well as families. The two-year concentration includes theory and application in practical settings. Students interested in transferring the FS concentration to a four-year college are urged to seek advisement from that college to ensure proper planning when beginning their studies at TVI.
- **Early Childhood Multicultural Education (ECME)** concentration, designed for students who wish to work in this field or complete a bachelor’s degree in early childhood education or a related field. It is accepted for transfer to all New Mexico four-year colleges/universities with similar programs. This concentration addresses the seven general early childhood education competency areas required for New Mexico Department of Education licensure in early childhood education (birth to third grade).
- **National Child Development Associate (CDA)** credential assessment administered by the Council for Early Childhood Professional Recognition. This credential is designed for those currently working or planning to work with children from birth through age six in such settings as Head Start, family care homes, Even Start, child care facilities and private and public preschools. Some of these courses articulate into the FS and ECME concentrations in the associate degree program. *Advanced CDA Placement:* Students who can demonstrate previous training and work experiences in the field may be eligible to apply for CDA advanced placement. For information, students should contact the program director.

All persons enrolling in a concentration are strongly encouraged to attend an orientation offered each term. The enrollment requirement is a high school diploma or equivalent. *Note:* Federal law requires a background check on all persons seeking employment in child care facilities. Not all courses are offered each term. The coursework also promotes the study of reading, writing, speech, math, English and science. Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4563.

CHILD, YOUTH AND FAMILY DEVELOPMENT CERTIFICATE

Albuquerque TVI offers the Child, Youth and Family Development Certificate Program as an occupational training and job upgrading program. Curricula are designed to provide the educational skills and practical experience necessary to enter the field of early care, education and family support. Coursework promotes the study of reading, writing, math and English.

The Early Childhood Multicultural Education concentration addresses the seven general early childhood education competency areas. The Family Studies concentration facilitates the learning of theory and skills required for working in various settings with children from infancy through adolescence as well as families.

ARTS AND SCIENCES COURSES REQUIRED FOR CERTIFICATE

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ENG 101	College Writing	3
ENG 102	Analytic and Argumentative Writing	3
MATH 111	Math for Elem./Mid-school Teachers	3
COMM 221	Interpersonal Communications	3
	Subtotal	12

Concentration: Family Studies

CDV 103	Pre-school Growth and Development	3
CDV 105L	Infant Growth and Development, Theory/Lab	4
CDV 106	Healthy Young Children	3
CDV 129C	Practicum	2
CDV 201	Middle Childhood Growth & Development	3
CDV 202	Adolescent Growth and Development	3
CDV 203C	Practicum II	2
CDV 207	Management of Early Childhood Programs	3
CDV 212	Special Issues in Child and Family Development	3
CDV 218 or CDV 219	Strengthening Family Marriage and Families	3
	CDV Elective (see list below).....	3

Electives

CDV 128	Early Childhood Learning Environments I	3
CDV 132	Emerging Literacy in Early Childhood	3
CDV 206	Working with Special-needs Children	3
CDV 209	Early Childhood Learning Environments II	3
CDV 296	Topics.....	3
CDV 297	Independent Study	3
CDV 299	Cooperative Education	3
	Subtotal	32
	Total for Certificate	44

Concentration: Early Childhood Multicultural Education

CDV 126	Childhood Growth and Development	3
CDV 127L	Observing Young Children	1
CDV 128	Early childhood Learning Environments I	3
CDV 129C	Practicum	2
CDV 132	Emergent Literacy in Early Childhood	3
CDV 203C	Practicum II	2
CDV 209	Early Childhood Learning Environments II	3
CDV 210	Guidance in Early Childhood.....	3
CDV 215	Intro to the Early Childhood Professions	4
CDV 216	Individual and Family Diversity	3
CDV 217	Diversity in Early Childhood Programs and Assessment	2
<i>(Note: The 29 credits above comprise the articulated transfer module to New Mexico four-year institutes.)</i>		
CDV 212	Special Issues in Child and Family Development	3
	Subtotal	3
	Total for Certificate	44

ARTS&SCIENCES COURSES REQUIRED FOR ASSOCIATE DEGREE

ART 101 or 201 or 202 or 251 or THEA 122	3-6
(Select one for FS concentration; two required for ECME concentration)	
COMM 221 Interpersonal Communication Studies or COMM 270 Communication Studies for Teachers	3
ENG 101 College Writing	3
ENG 102 Analytic and Argumentative Writing	3
MATH 111 Math for Elementary/Mid-school Teachers or higher	3
HIST 101 or 102 or 161 or 162 or 260	3
Social and Behavioral Science: two courses from listing below:	6
<i>ANTH 101 Introduction to Anthropology or ANTH 130 Cultures of the World; ECON 200 Macroeconomics; ECON 201 Microeconomics; GEOG 102 Human</i>	

Geography; PHIL 156 Logic and Critical Thinking; PSCI 110 The Political World or PSCI 220 Comparative Government and Politics; PSY 105 Introduction to Psychology; SOC 101 Introduction to Sociology

Biological Science, Physical Science or Astronomy (two credits in lab are required)	8
Subtotal	32–35

Concentration: Family Studies (formerly CYFD)

CDV 103	Pre-School Growth and Development	3
CDV 105L	Infant Growth and Development, Theory and Lab	4
CDV 106	Healthy Young Children	3
CDV 129C	Practicum I	2
CDV 201	Middle Childhood Growth and Development	3
CDV 202	Adolescent Growth and Development	3
CDV 203C	Practicum II	2
CDV 207	Management of Early Childhood Programs	3
CDV 212	Special Issues in Child and Family Development	3
CDV 218	Strengthening Family Structures	
or CDV 219	Marriage and Families	3
CDV Electives (see below)		9
Subtotal		38
Total for Degree		70

Electives

CDV 101	Parents and Young Children	3
CDV 128	Early Childhood Learning Environments I	3
CDV 132	Emerging Literacy in Early Childhood	3
CDV 204	Introduction to Classroom Learning	3
CDV 206	Working with Special-needs Children	3
CDV 209	Early Childhood Learning Environments II	3
CDV 210	Guidance in Early Childhood	3
CDV 216	Individual and Family Diversity	3
CDV 217	Diversity in Early Childhood Programs and Assessment	2
CDV 218	Strengthening Family Structures	3
CDV 219	Marriages and Families	3
CDV 296	Topics	1–3
CDV 298	Independent Study	3
CDV 299	Cooperative Education	1–3

Concentration: Early Childhood Multicultural Education

CDV 126	Childhood Growth and Development	3
CDV 127L	Observing Young Children	1
CDV 128	Early Childhood Learning Environments I	3
CDV 129C	Practicum I	2
CDV 132	Emerging Literacy in Early Childhood	3
CDV 203C	Practicum II	2
CDV 209	Early Childhood Learning Environments II	3
CDV 210	Guidance in Early Childhood	3
CDV 215	Intro to the Early Childhood Professions	4
CDV 216	Individual and Family Diversity	3
CDV 217	Diversity in Early Childhood Programs and Assessment	2
<i>(Note: The 29 credits above comprise the articulated transfer module to New Mexico four-year institutes.)</i>		
CDV 212	Special Issues in Child and Family Development	3
Subtotal		32
Total for Degree		67

Child Development Associate Credential Preparation

CDV 120	Introduction to CDA	2
CDV 120B	45-Hour Entry-level Course	3
CDV 124	Supervised Field Experience	1-5

In addition, one of the following courses must be taken in the student's area of interest.

CDV 105L	Infant Growth and Development	4
CDV 103L	Pre-School Growth and Development	3
CDV 218	Strengthening Family Structures	3

CLINICAL LABORATORY ASSISTANT

Health Occupations Department

The Clinical Laboratory Assistant (CLA) certificate program prepares students to perform basic laboratory testing in a medical laboratory under the supervision of a medical technologist, medical laboratory technician or pathologist. A CLA collects and processes blood specimens and performs test procedures in chemistry, hematology, immunology, microbiology and urinalysis.

Students should possess the ability to communicate with clients and the manual dexterity required to handle laboratory equipment. Applicants must present evidence of current TB testing, immunizations (including hepatitis B, rubella and rubeola) and BLS CPR certification prior to the clinical portion of the program. Advanced placement through transfer is available for applicants who have completed other phlebotomy programs.

The CLA program is offered over three terms with classes beginning in the spring term. CLA 101L and CLA 102L theory lectures are delivered by video tape via TVI Distance Learning. CLA 101L and CLA 102L labs are held one night a week at the South Valley Campus. CLA 103C, the clinical experience, is arranged in area hospital and clinic laboratories. Prerequisites are:

- high school diploma or equivalent
- MATH 099 or equivalent
- ENG 099 or equivalent
- RDG 099 or equivalent
- completion of TVI Phlebotomy program within past three years or ASCP or NCA certification
- recent work experience

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-5068.

Courses offered: Spring term: CLA 101L, Summer term: CLA 102L, and Fall term: CLA 103C

Course No.	Course Name	Credit Hours
CLA 101L	Introduction to Laboratory Technique	3
CLA 102L	Basic Hematology/Chemistry	3
CLA 103C	Clinical Experience	5
	Total	11

COMPUTER INFORMATION SYSTEMS (formerly Microcomputer Management)

Business Occupations Department

The Computer Information Systems program combines microcomputer concepts, computer applications, accounting skills and problem solving in a business environment. A keyboarding skill of 25 words per minute is required for entry into the program. Keyboarding courses are available in the Business Occupations Department. The associate of applied science degree transfers to the University of New Mexico toward a Bachelor of Science degree in Education in Technology and Training within Organizational Learning and Technology.

Information about this program is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the Computer Information Systems certificate/associate of applied science degree includes:

BUSINESS COMPUTER APPLICATIONS CONCENTRATION CERTIFICATE

Term 1: ACCT 101, 111, BA 121, 150

Term 2: ACCT 102, CIS 120 or 123, 130, 131, 142, 160, ENG 101

Term 3: ACCT 157, 158, 254, BA 113 or 133, CIS 155, 156, 157, 186, COMM elective

Term 4: CIS 201

Additional Degree Requirements

Term 4: CIS 135, 164, 210, 237, ENG 119, elective

Term 5: MATH 119 or higher (except MATH 215 and 296), PHIL 245B

BUSINESS INFORMATION MANAGEMENT CONCENTRATION CERTIFICATE

Term 1: ACCT 101, 111, BA 121, 150

Term 2: ACCT 102, CIS 120 or 123, 130, 131, 147, 160, ENG 101

Term 3: ACCT 254, BA 113 or 133, CIS 155, 156, 157, 250, COMM elective

Term 4: CIS 201, 254

Additional Degree Requirements

Term 4: CIS 230, 237, elective, ENG 119

Term 5: MATH 119 or higher (except MATH 215 and 296), PHIL 245B

DATA COMMUNICATIONS MANAGEMENT CONCENTRATION CERTIFICATE

Term 1: ACCT 101, 111, BA 121, 150

Term 2: ACCT 102, CIS 110, 130, 131, 135, 145, 160, ENG 101

Term 3: ACCT 254, BA 113 or 133, CIS 155, 156, 157, COMM elective, elective

Term 4: CIS 201, elective

Additional Degree Requirements

Term 4: CIS 230, 237, elective, ENG 119

Term 5: MATH 119 or higher (except MATH 215 and 296), PHIL 245B

MULTIMEDIA CONCENTRATION CERTIFICATE

Term 1: ACCT 101, 111, BA 121, 150

Term 2: CIS 120 or 123, 130, 142, 160, 170, ENG 101

Term 3: BA 113 or 133, CIS 260, 261, 255, 270, COMM elective

Term 4: CIS 201, 271

Additional Degree Requirements

Term 4: CIS 164, 165, elective, ENG 119

Term 5: CIS 275, MATH 119 or higher (except MATH 215 and 296), PHIL 245B

Computer Information Systems Core

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101	Accounting I	
	or ACCT 101A and ACCT 101B	6
ACCT 111	Business Math	3
BA 113	Introduction to Business	
	or BA 133 Principles of Management	3
BA 121	Business English	3
BA 150	Introduction to Computers	
	or CP 176 Introduction to Technology Computer Applications	
	or CSCI 101 Computer Literacy	4
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CIS 201	Hardware/Software Administration [previously MMS 201]	3
ENG 101	College Writing	3
	COMM Elective	3
	Subtotal	30

CONCENTRATIONS FOR DEGREE OR CERTIFICATE (One Concentration Required)

BUSINESS COMPUTER APPLICATIONS CONCENTRATION

ACCT 102	Accounting II	3
ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
ACCT 158	Intermediate Quickbooks (5 weeks) [previously BA 159]	1
ACCT 254	Electronic Spreadsheets	3
CIS 120	WordPerfect for Windows [previously MMS 134]	
or CIS 123	Microsoft Word for Windows [previously MMS 135]	3
CIS 131	Intermediate Windows (5 weeks) [previously MMS 164]	1
CIS 142	Presentation Graphics [previously MMS 257]	3
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
CIS 157	Advanced Access (5 weeks) [previously MMS 169]	1
CIS 186	Project Management (5 weeks) [previously MMS 161]	1
	Total Required for Certificate	49

Additional Degree Requirements

CIS 135	Windows NT Workstation (5 weeks) [previously MMS 162]	1
CIS 164	Hypertext Markup Language (HTML) (5 weeks) [previously MMS 171]	1
CIS 210	Office Management Software (5 weeks) [previously MMS 156]	1
CIS 237	Spreadsheet Macro Programming (5 weeks) [previously MMS 261]	1
ENG 119	Technical Communications	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Approved Elective	3
	Total Required for Degree	65-66

BUSINESS INFORMATION MANAGEMENT CONCENTRATION

ACCT 102	Accounting II	3
ACCT 254	Electronic Spreadsheets	3
CIS 120	WordPerfect for Windows [previously MMS 134]	
or CIS 123	Microsoft Word for Windows [previously MMS 135]	3
CIS 131	Intermediate Windows (5 weeks) [previously MMS 164]	1
CIS 147	Introduction to Information Management [previously MMS 142]	3
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
CIS 157	Advanced Access (5 weeks) [previously MMS 169]	1
CIS 250	Business Intranets/Extranets [previously MMS 250]	3
CIS 254	Business Operations Management [previously MMS 251]	3
	Total Required for Certificate	52

Additional Degree Requirements

CIS 230	Business Database Management [previously MMS 252]	3
CIS 237	Spreadsheet Macro Programming (5 weeks) [previously MMS 261]	1
ENG 119	Technical Communications	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Approved Elective	3
	Total Required for Degree	68-69

Approved Electives for Business Computer Applications and Business Information Management Concentrations

*CIS 142	Presentation Graphics [previously MMS 257]	3
CIS 145	Data Communications Essentials [previously MMS 140]	3
CIS 180	Extensible Markup Language (XML) (5 weeks) [previously MMS 177]	1

CIS 181	Business Document Presentation (5 weeks)	1
CIS 182	Validating Business Documents (5 weeks)	1
CIS 220	Word Certification Prep (5 weeks)	1
CIS 222	PowerPoint Certification Prep (5 weeks)	1
CIS 224	Excel Certification Prep (5 weeks)	1
CIS 226	Access Certification Prep (5 weeks)	1
*CIS 230	Business Database Management [previously MMS 252]	3
CIS 240	Data Management [previously MMS 240]	3
CIS 241	NetWare Management [previously MMS 241]	3
CIS 243	Windows NT Server Management [previously MMS 242]	3
CIS 244	Windows NT TCP/IP Data Communications [previously MMS 243]	3
CIS 245	Windows NT Data Management [previously MMS 244]	3
CIS 282	Advanced Windows NT Workstation (5 weeks)	1
CIS 284	Advanced Network Essential (5 weeks)	1
CIS 285	Advanced Windows NT Server (5 weeks)	1
CIS 287	Advanced TCP/IP (5 weeks)	1
CIS 288	Advanced Windows NT Server in the Enterprise (5 weeks)	1
CIS 296	Topics	1-3
CIS 298	Internship	4
CIS 299	Cooperative Education	4

*Cannot be used as an elective if required for degree.

DATA COMMUNICATIONS MANAGEMENT CONCENTRATION

ACCT 102	Accounting II	3
ACCT 254	Electronic Spreadsheets	3
CIS 110	DOS Fundamentals (5 weeks) [previously MMS 151]	1
CIS 131	Intermediate Windows (5 weeks) [previously MMS 164]	1
CIS 135	Windows NT Workstation (5 weeks) [previously MMS 162]	1
CIS 145	Data Communications Essentials [previously MMS 140]	3
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
CIS 157	Advanced Access (5 weeks) [previously MMS 169]	1
	Approved Electives	6
	Total Required for Certificate	51

Additional Degree Requirements

CIS 230	Business Database Management [previously MMS 252]	3
CIS 237	Spreadsheet Macro Programming (5 weeks) [previously MMS 261]	1
ENG 119	Technical Communications	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Approved Elective	3
	Total Required for Degree	67-68

Approved Electives for Data Communications Management Concentration

CIS 240	Data Management [previously MMS 240]	3
CIS 241	NetWare Data Management [previously MMS 241]	3
CIS 243	Windows NT Server Management [previously MMS 242]	3
CIS 244	Windows NT TCP/IP Data Communications [previously MMS 243]	3
CIS 245	Windows NT Data Management [previously MMS 244]	3
CIS 282	Advanced Windows NT Workstation (5 weeks)	1
CIS 284	Advanced Network Essentials (5 weeks)	1
CIS 285	Advanced Windows NT Server (5 weeks)	1
CIS 287	Advanced TCP/IP (5 weeks)	1
CIS 288	Advanced Windows NT Server in the Enterprise (5 weeks)	1

CIS 296	Topics	1–3
CIS 298	Internship	4
CIS 299	Cooperative Education	4

MULTIMEDIA CONCENTRATION

CIS 120 or CIS 123	WordPerfect for Windows [previously MMS 134] Microsoft Word for Windows [previously MMS 135]	3
CIS 142	Presentation Graphics [previously MMS 257]	3
CIS 170	Introduction to Multimedia [previously MMS 170]	3
CIS 255	Desktop Publishing [previously MMS 255]	3
CIS 260	Beginning PhotoShop (5 weeks) [previously MMS 173]	1
CIS 261	Intermediate PhotoShop (5 weeks) [previously MMS 174]	1
CIS 270	Macromedia Authorware [previously MMS 270]	3
CIS 271	Macromedia Director [previously MMS 271]	3
	Total Required for Certificate	50

Additional Degree Requirements

CIS 164	Hypertext Markup Language (HTML) (5 weeks) [previously MMS 171]	1
CIS 165	Web Construction Coding (5 weeks) [previously MMS 172]	1
CIS 275	Adobe Premiere [previously MMS 272]	3
ENG 119	Technical Communications	3
MATH 119	Methods of Problem or higher (except MATH 215 and 296)	3–4
PHIL 245B	Business Ethics	3
	Computer Elective	3
	Total Required for Degree	67–68

Approved Electives for Multimedia Concentration

ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
ACCT 158	Intermediate Quickbooks (5 weeks) [previously BA 159]	1
BGC 201	Postscript Illustration	3
BGC 202	Image Manipulation/Painting	3
BGC 204	Digital Printing and Design	3
CIS 131	Intermediate Windows (5 weeks) [previously MMS 164]	1
CIS 135	Windows NT Workstation (5 weeks) [previously MMS 162]	1
CIS 150	Excel Fundamentals (5 weeks) [previously MMS 158]	1
CIS 151	Intermediate Excel (5 weeks) [previously MMS 166]	1
CIS 152	Advanced Excel (5 weeks) [previously MMS 167]	1
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
CIS 157	Advanced Access (5 weeks) [previously MMS 169]	1
CIS 166	Dynamic Styles (5 weeks)	1
CIS 180	Extensible Markup Language (XML) (5 weeks) [previously MMS 177]	1
CIS 181	Business Document Presentation (5 weeks)	1
CIS 182	Validating Business Documents (5 weeks)	1
CIS 186	Project Management (5 weeks) [previously MMS 161]	1
CIS 190	Beginning FrontPage (5 weeks) [previously MMS 178]	1
CIS 191	Intermediate FrontPage (5 weeks) [previously MMS 179]	1
CIS 210	Office Management Software (5 weeks) [previously MMS 156]	1
CIS 230	Applied Database Management [previously MMS 252]	3
CIS 250	Business Intranets/Extranets [previously MMS 250]	3
CIS 254	Business Operations Management [previously MMS 251]	3
CIS 256	Advanced Desktop Publishing [previously MMS 256]	3
CIS 262	Advanced PhotoShop (5 weeks) [previously MMS 175]	1
CIS 278	Business Web-Site Design [previously MMS 276]	3
CIS 296	Topics Course [previously MMS 296]	1–3

CIS 298	Internship [previously MMS 298]	4
CIS 299	Cooperative Education [previously MMS 299]	4
ECM 176	Introduction to Internet Commerce (5 weeks) [previously MMS 176]	1

COMPUTING TECHNOLOGY

Technologies Department

In this program students acquire the technical skills to solve information and management problems using computer hardware and software. Students have the choice of two concentrations: Computer Programming and Computer Animation. Graduates are prepared for jobs as entry-level business applications programmers or computer animation technicians, which can be the first steps to a career in the computer field. (The former Computer Networking Concentration has become a separate certificate/degree program in Networking Technology (see page 109). The Computing Technology program was previously named Business Computer Programming Technology.

The Technologies Department also offers the Web Technology program in collaboration with the Business Occupations Department to meet the needs of an entirely new industry and career (see page 131).

Computers currently used at TVI are the IBM ES-9000, IBM AS400, IBM microcomputers and compatibles and Silicon Graphics workstations. Mainframe, mini- and microcomputers and local area networks are used in Computing Technology courses.

Courses numbered below 200 give students a sound background in fundamental skills used on a wide variety of computers and computer-related equipment. Courses numbered above 200 continue to build computer application skills with emphasis on problem-solving techniques and the interactions among people and machines/computers/technology. A mainframe environment is used to teach three widely used business programming languages while three additional languages are taught on microcomputers. Optional courses are available.

Students entering Computing Technology courses must satisfy the prerequisites of MATH 100B, reading at a minimum of eighth-grade level and CP 176 or equivalent. If students take MATH 099 or MATH 100B, it is recommended that they also take CP 100.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-3340.

COMPUTER PROGRAMMING CONCENTRATION CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CP 101L	ANSI COBOL	6
CP 103	Mathematics for Computer Programmers	4
CP 105	Fundamentals of Computer Programming	6
CP 120	Mainframe/Mini Computer Operating Systems	
or CP 216L	Personal Computer Operating Systems	3
CP 150	Data Structures	3
CP 183	Overview of Network Operating System Environments	3
CP 213	Database Concepts	3
CP 236	Systems Life Cycle Analysis	3
CP 278A	C++ Language Programming I	3
CP 292	System Development	1
ACCT 103	Survey of Accounting for non-Business Majors	3
ENG 101	College Writing	3
ENG 119	Technical Communications	
or Communications (COMM) Elective		3
	Social and Behavioral Sciences or Humanities Elective	3
	Total Credits for Certificate	50

Additional Associate of Applied Science Degree Requirements

MATH 121	College Algebra	3
or MATH 150	Advanced Algebra	4
or MATH 180	Elements of Calculus I	3
MATH 145	Introduction to Probability and Statistics	3

Additional 15 Credits Selected from Courses Below

CP 111L	Advanced ANSI COBOL	6
CP 183	Introduction to Web Scripting	3
CP 1251	Advanced Web Scripting	3
CP 201L	Interactive Programming Techniques	3
CP 202L	Assembler Language Programming	6
CP 214L	RPG III/400 Programming	3
CP 217L	Personal Computer Assembler Language	3
CP 218	Introduction to Client/Server Technology	3
CP 220	Advanced Database Concepts	3
CP 221	Introduction to Oracle: SQL and PL/SQL	3
CP 235	Programming in JAVA	3
CP 251	Computer Game Development	3
CP 274L	Introduction to UNIX and WANs	3
CP 275	Advanced UNIX and WAN Administration	3
CP 278B	C++ Language Programming II	3
CP 280L	Advanced RPG III/400	3
CP 281L	Object-Oriented C++ Programming	3
CP 284	Introduction to Visual Basic	3
CP 287	Advanced Visual Basic w/ Client/Server Apps	3
CP 296	Topics	1-6
CP 297	Special Problems	1-6
CP 298	Internship	3
CP 299	Cooperative Education	3
	Total Credits for Degree	71-72

COMPUTER ANIMATION CONCENTRATION

CERTIFICATE AND DEGREE REQUIREMENTS

CP 170	Techniques for Animation Text	3
CP 177L	Introduction to Computer Animation/Graphics	3
CP 178L	Computer Animation I	3
CP 179	Computer Animation II	3
CP 180	Computer Animation Strategies and Techniques	3
CP 181L	Advanced Alias/Wavefront Maya	3
CP 262	Video Editing/Post Production	3
CP 293	Demo Reel Production	1
ART 106	Drawing I	3
ART 121	Two-Dimensional Design	3
ART 122	Three-Dimensional Design	3
ELEC 217	Upgrading and Repairing PCs	3
ENG 101	College Writing	3
ENG 119	Technical Communications or Communications (COMM) Elective	3
CIS 260	Beginning Photoshop	1
CIS 261	Intermediate Photoshop	1
CIS 262	Advanced Photoshop	1
	Total Credits for Certificate	43

Additional Associate of Applied Science Degree Requirements

CP 103	Mathematics for Computer Programmers	4
CP 105	Fundamentals of Computer Programming	6
CP 278A	C++ Language Programming I	3
ACCT 103	Survey of Accounting for non-Business Majors	3

MATH 121	College Algebra	3
or MATH 150	Advanced Algebra	4
or MATH 180	Elements of Calculus I	3
MATH 145	Introduction to Probability and Statistics	3
Additional Nine Credits Selected from Courses Below		
CP 113	Survey of Computer Animation	3
CP 183	Overview of Network Operating System Environments	3
CP 251	Computer Game Development	3
CP 260L	Open GL/Open Inventor	3
CP 261L	Image Processing	3
CP 274L	Introduction to UNIX and WANs	3
CP 284	Introduction to Visual Basic	3
CP 296	Topics	1-6
CP 297	Special Problems	1-6
CP 298	Internship	3
CP 299	Cooperative Education	3
ELEC 276L	Soldering Techniques (7.5 weeks)	2
BGC 202	Digital Drawing	3
BGC 203	Production Photoshop	3
BGC 204	Digital Printing Production	3
THEA 122	Introduction to Theater	3
	Total Credits for Degree	74-75

CONSTRUCTION MANAGEMENT TECHNOLOGY

Technologies Department

Construction Management provides coursework leading to an associate of applied science degree. A Residential Superintendent Concentration is also offered; students may not be eligible for financial aid or veterans' benefits. Students are prepared for mid-management (supervisory) positions in the construction industries, including general contractor, estimator, assistant project manager, inspector, office manager, crew leader, expeditor, superintendent, sales representative and computer specialist. Construction is defined as all the disciplines that contribute to the building process, from inception to demolition.

State-of-the-art computer applications, interfacing between applications and report analysis are used throughout the program. Some courses also use computer-based learning modules.

The program is accredited by the American Council for Construction Education (ACCE). Many of the course credits are transferable to the University of New Mexico towards a baccalaureate degree in construction management.

Because the level of experience for entering students varies, it is imperative that new students interview with the program chair to develop an appropriate schedule.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3783.

COURSES REQUIRED FOR RESIDENTIAL SUPERINTENDENT VERIFICATION OF COMPLETION

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
Term 1		
CM 130	Construction Detailing	3
CM 132L	Construction Graphics/Engineering Methods	3
CM 171	Construction Materials and Techniques	3
CM 175	Contractor Preparation	3
CP 176	Introduction to Technology Computer Applications	4
Term 2		
CM 256	Statics	3
CM 257	Computer Estimating	3

CM 277	Construction Management, Planning and Estimating	3
CM 278	Mechanical and Electrical Blueprint Reading	2
COMM 221	Interpersonal Communication Studies	3
	Total for Verification of Completion	30

COURSES REQUIRED FOR ASSOCIATE DEGREE

Term 1

CM 130	Construction Detailing	3
CM 132L	Construction Graphics/Engineering Methods	3
CM 171	Construction Materials and Techniques	3
CM 175	Contractor Preparation	3
CP 176	Introduction to Technology Computer Applications	4

Term 2

CM 256	Statics	3
CM 257	Computer Estimating	3
CM 277	Construction Management, Planning and Estimating	3
CM 278	Mechanical and Electrical Blueprint Reading	2
COMM 221	Interpersonal Communication Studies	3

Term 3

CM 261L	Construction Surveying	3
ACCT 101A	Accounting 1A	3
MATH 120	Intermediate Algebra	4
EPT 213	Occupational Safety	3
	Humanities/Social and Behavioral Science	3

Term 4

CM 201	Commercial Construction Theory	2
CM 201L	Commercial Construction Lab	3
CM 263	Construction Equipment and Methods	3
BA 211	Business Law	3
ENG 101	College Writing	3
PHYS 102 or higher	.....	3
	Total for Associate Degree	63

Optional Courses

CM 296	Topics	1-4
CM 297	Special Problems	2-4
CM 298	Internship	3
CM 299	Cooperative Education	3

CONSTRUCTION TECHNOLOGY

Trades & Service Occupations Department

The Construction Technology associate of applied science degree has concentrations in general construction and electrical. Required courses are designed to develop professionalism, leadership and technical skills necessary for students to gain employment in the construction industry or a related field.

The program provides instruction in safety, graphics, materials, computer estimating, statistics, management, equipment, blueprint reading, drafting, communications, math and technical skills related to the residential and commercial construction industry.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

GENERAL CONSTRUCTION CONCENTRATION

A suggested schedule per term includes:

Term 1: CARP 101, 102, 102L, 103, 103L, 104, 104L, MATH 119 or higher

Term 2: CARP 111, 112, 112L, 113, 113L, 114, 114L, ENG 101, BA 150 or CP 176 or CSCI 101

Term 3: CM 132, 171, 175, 201, 201L, COMM 130 or higher

Term 4: CM 257, 263, 278, humanities/social and behavioral science elective, PHYS 102 or higher

Required Trades & Service Occupations Courses

Course No.	Course Name	Credit Hours
CARP 101	Carpentry Blueprint Reading I	4
CARP 102	Foundations Theory	1
CARP 102L	Foundations Lab	2
CARP 103	Framing Theory	1
CARP 103L	Framing Lab	2
CARP 104	Exteriors Theory	1
CARP 104L	Exteriors Lab	2
CARP 111	Carpentry Blueprint Reading II	4
CARP 112	Interior Finish Theory	1
CARP 112L	Interior Finish Lab	2
CARP 113	Cabinet-making and Millwork Theory	1
CARP 113L	Cabinet-making and Millwork Lab	2
CARP 114	Carpentry Remodel Theory	1
CARP 114L	Carpentry Remodel Lab	2
CM 132	Construction Graphics	3
CM 171	Construction Materials and Techniques	3
CM 175	General Contractor Preparation	3
CM 201	Commercial Construction Theory	2
CM 201L	Commercial Construction Lab	3
CM 257	Computer Estimating	3
CM 263	Construction Equipments and Methods	3
CM 278	Mechanical and Electrical Blueprint Reading	2

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	3	
ENG 101	College Writing	3
	Humanities/Social and Behavioral Science Elective	3
MATH 119 or higher	3-4	
PHYS 102 or higher	3	
Total	67-68	

ELECTRICAL CONCENTRATION

A suggested schedule per term includes:

Term 1: ELTR 101, 102, 103L, 104L, MATH 119 or higher

Term 2: ELTR 112, 113, 114L, 115L, ENG 101, BA 150 or CP 176 or CSCI 101

Term 3: ELTR 201, 203, 204L, 205L, COMM 130 or higher

Term 4: ELTR 211, 212, 213L, 214L, humanities/social and behavioral science elective, PHYS 102 or higher

Required Trades & Service Occupations Courses

ELTR 101	Electrical Theory I	4
ELTR 102	Electrical Math I	3
ELTR 103L	Electrical DC/AC Lab	3
ELTR 104L	AC Circuitry, Motors, Generators	3
ELTR 112	Residential Blueprint Reading I	3
ELTR 113	Electrical Theory II	4
ELTR 114L	Residential Wiring Lab	3

ELTR 115L	Residential Electrical Services	3
ELTR 201	Electrical Theory III	4
ELTR 203	Electrical Motor Control Theory	3
ELTR 204L	Industrial Motor Control Lab	3
ELTR 205L	Industrial Power Distribution	3
ELTR 211	Industrial Electrical Circuitry and Safety	3
ELTR 212	Programmable Logic Controller Theory	4
ELTR 213L	PLC Installation and Operation	3
ELTR 214L	PLC Systems Operation and Troubleshooting	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	.....	3
ENG 101	College Writing	3
	Humanities/Social and Behavioral Science Elective	3
MATH 119 or higher	.....	3-4
PHYS 102 or higher	.....	3
Total	.....	71-72

CONTINUOUS QUALITY IMPROVEMENT (CQI)

Business Occupations Department

Continuous Quality Improvement (CQI) courses (BA 101, 102, 103, 104, 105, 106) are designed to help improve processes and change the culture within organizations. The courses highlight quality improvement concepts and theories, fundamentals of continuous quality improvement, techniques for data gathering, quality tools, team building, action plans for process improvement and quality leadership.

The quality courses are also offered as a concentration option for the associate of applied science degree in Business Administration.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits. Application for a verification of completion may be made with the director upon successful completion of the six CQI courses.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

COSMETOLOGY

Trades & Service Occupations Department

Cosmetology is a personal service occupation. The Cosmetology program is designed to meet the standards established by the New Mexico State Board of Barbers and Cosmetologists. The degree requires 68 credit hours in cosmetology and general education, which exceeds the minimum 1,600 clock hours required by the State Board. A graduate of the program after satisfactory performance on the state board examination is qualified to practice as a licensed cosmetologist in New Mexico.

The cosmetology curriculum covers theory and lab in the following State Board requirements: sterilization, bacteriology, shampoo, rinses, scalp treatments, chemical rearranging—perms and relaxers, hairstyling, hair coloring and bleaching, hair cutting, facials, manicuring, pedicuring, salon business and retail sales.

Students **must** declare Cosmetology as their major and meet or complete the following prerequisites:

1. High school diploma or equivalent
2. MATH 119 or equivalent
3. BIO 136 or equivalent
4. ENG 101 or equivalent

5. Computer Requirement: BA 150 or CP 176 or CSCI 101

6. TVI GPA of 2.0 or higher

Students are responsible for meeting the program prerequisites. Listed Arts & Sciences and the computer requirement must be completed prior to entering the program. Only students meeting these requirements are eligible to be enrolled in Cosmetology courses on a first-come first-served basis.

A cosmetologist career may offer opportunities in the areas of operator, consultant, sales representative or owner.

Students pay a non-refundable supply fee of \$50 prior to entering COS 102L, 112L, 201L and 212L.

New students also pay a \$15 New Mexico State Board of Cosmetology registration fee (personal money order by 5th day of each term).

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: COS 101, 102, 102L, 103, 103L, 104, 104L, 105, 105L, 106, 106L, 107, 107L

Term 2: COS 112, 112L, 113L, 114L, 115L, 116L, 117L, COMM 221

Term 3: COS 201L, 202L, 203L, 204L, 205L, humanities/social or behavioral science elective

Term 4: COS 211, 212, 212L 213, 213L, 214L, 215L, 216L

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
COS 101	Orientation	2
COS 102	Sterilization/Sanitation/Bacteriology Theory	1
COS 102L	Sterilization/Sanitation/Bacteriology Lab	1
COS 103	Shampoo/Rinses/Scalp Treatment Theory	1
COS 103L	Shampoo/Rinses/Scalp Treatment Lab	1
COS 104	Chemical Rearranging Theory	1
COS 104L	Chemical Rearranging Lab	1
COS 105	Cutting/Hairstyling Theory	1
COS 105L	Cutting/Hairstyling Lab	1
COS 106	Hair Coloring Theory	1
COS 106L	Hair Coloring Lab	1
COS 107	Manicuring/Pedicuring Theory	1
COS 107L	Manicuring/Pedicuring Lab	1
COS 112	Facials Theory	1
COS 112L	Facials Lab	1
COS 113L	Sterilization/Sanitation/Bacteriology Lab II	1
COS 114L	Shampoo/Rinses/Scalp Treatment Lab II	1
COS 115L	Chemical Rearranging–Perms and Relaxers Lab II	2
COS 116L	Cutting/Coloring/Hairstyling Lab II	3
COS 117L	Manicuring/Pedicuring Lab II	2
COS 201L	Chemical Rearranging–Perms and Relaxers Lab III	2
COS 202L	Hair Cutting Lab III	2
COS 203L	Hair Coloring Lab III	1
COS 204L	Hairstyling Lab III	1
COS 205L	Facials/Manicuring/Pedicuring Lab III	4
COS 211	State Laws/Regulations	1
COS 212	Salon Operation Theory	1
COS 212L	Salon Operation Lab (Externship)	3
COS 213	Advanced Salon Theory	2
COS 213L	Advanced Salon Lab	5
COS 214L	Hair Cutting Lab IV	2
COS 215L	Hair Styling Lab IV	1
COS 216L	Facials/Manicuring/Pedicuring Lab IV	1

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

ENG 101	College Writing	3
BIO136	Human Anatomy and Physiology	3
COMM 221	Interpersonal Communication Studies	3
MATH 119	Methods of Problem Solving	4
Humanities/Social Science Elective	.....	3
Total	.....	71

COURT REPORTING

Business Occupations Department

The Court Reporting program trains qualified men and women for entry into the highly technical court reporting profession. Instruction focuses on computer-aided transcription. The field is experiencing steady growth and offers many employment opportunities.

Court reporters are skilled professionals with machine shorthand and transcription skills who produce verbatim transcripts of trials, hearings and depositions. Reporters are employed in court proceedings, depositions, corporate meetings, arbitration hearings, conventions, and legislative sessions. Court reporters also provide real-time and closed-captioning services.

A keyboarding skill of 35 words per minute is required for entry into the Court Reporting program. Keyboarding courses are available in the Business Occupations Department.

Students enrolled in machine shorthand courses are responsible for having a stenotype machine (manual or electric). Students must own a stenotype machine prior to enrolling in CR 103L, Machine Shorthand I.

AA 101 and AA 102 or 35 wpm typing speed on a five-minute timing are prerequisites to CR 103L.

CR 104L is an open-exit course; CR 210L, CR 220L, and CR 230L are open-entry, open-exit courses. Students may advance to the next course upon reaching the required speed level.

CR 104L, CR 210L, CR 220L, and CR 230L may be taken on a credit/no credit basis. Students in these courses must check with the Financial Aid Office before selecting a grading option.

One of the goals of the Court Reporting associate of applied science degree program is to prepare students to pass the New Mexico Court Reporting certification test.

To graduate from the Court Reporting program, students must pass three five-minute tests on literary material dictated at 180 wpm with 96% accuracy, three five-minute tests on jury charge dictated at 200 wpm with 96% accuracy, and three five-minute tests on testimony at 225 wpm with 96% accuracy and a transcription rate of 20 wpm. Students must also keyboard at the rate of 60 net wpm with no more than five errors on two five-minute timed writings from unfamiliar material. Students must also complete a Court Reporting internship with a minimum of 75 clock hours of practical experience under the supervision of a certified shorthand reporter. A minimum of 40 of those hours shall be spent in actual writing time.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3847.

A suggested schedule per term for the occupational component of the associate of applied science degree program in Court Reporting includes:

Term 1: BA 121, 150, CR 103L, 121

Term 2: BA 131, CR 104L, 105, 132

Term 3: CR 210L, 240

Term 4: CR 220L, 250L

Term 5: CR 230L, 260, 298

DEGREE REQUIREMENTS

<i>Course</i>	<i>No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 121		Business English	3
BA 131		Business Interpersonal Skills (7.5 weeks)	2
		COMM Elective	3
BA 150		Introduction to Computers	
or CP 176		Introduction to Technology Computer Applications	
or CSCI 101		Computer Literacy	4
CR 103L		Machine Shorthand I	7
CR 104L		Machine Shorthand II	7

CR 105	Keyboard Skill-building	2
CR 121	Introduction to Court Reporting	3
CR 132	Medical Terminology/Anatomy	3
CR 210L	Machine Shorthand III	8
CR 220L	Machine Shorthand IV	8
CR 230L	Machine Shorthand V	8
CR 240	Legal Terminology	3
CR 250L	Computer-Aided Transcription	3
CR 260	Court Reporting Procedures	3
CR 298	Internship	2
ENG 101	College Writing	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	
or Biological and	Physical Science Elective	3–4
	Social Science or Behavioral Science Elective	3
	Arts and Sciences Elective	3
	Approved Elective	1–4
	Total Required for Degree	82–86

APPROVEDELECTIVES

AA 101	Beginning Keyboarding	3
AA 102	Keyboard Applications	3
AA 107	Intermediate Keyboard Skill-building	2
AA 143	Word Processing	3
AA 231	Business English Applications	3
AA 250	Machine Transcription	3
AA 270	Medical Transcription	3
BA 211	Business Law	3
BA 252	Customer Relations	3
CIS 110	DOS Fundamentals (5 weeks) [previously MMS 151]	1
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CR 122	Word Power (7.5 weeks)	1
CR 123	Punctuation for Court Reporters	3
CR 251	Stenotranscription	3
CR 252	Medical/Legal Stenotranscription	2
CR 253	Litigation Support (7.5 weeks)	2
CR 270	Speedbuilding/Test Preparation	3
CR 296	Topics Course	1–3
CR 297	Special Problems	variable
CR 299	Cooperative Education	4
ENG 240	Traditional Grammar	3
ENTR103	Entrepreneurship	3

CRIMINAL JUSTICE

Trades & Service Occupations Department

This associate degree program provides comprehensive instruction in criminal justice for students who plan careers in criminal justice agencies (such as law enforcement, courts and corrections) or in the private sector (security, investigations). Students who have already received a certificate from an approved New Mexico criminal justice academy may be granted credit if their academy experience coincides with a model academy curriculum and they have successfully passed a final examination with a grade of 85 percent or better. Approved academies include the Albuquerque Police Academy, the Bernalillo County Sheriff's Academy, and the New Mexico State Police Recruit School. Course requirements may vary depending on where credits were granted. Contact the Trades and Service Occupations Department for any special course requirements.

Some employers may require a high school diploma, two years of college, an associate or bachelor's degree or in some instances a law degree.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: CJ 101, 102, 103 or 104, 107, 108, ENG 101

Term 2: CJ 111 (or 116), 112, 109 or 113, 117, 118, FITT 170

Term 3: COMM 221, ENG 119, MATH 119 (or higher), PSY 105, SOC 101, BA 150 or CP 176 or CSCI 101

Term 4: SOC 111, 211 (or PSCI 110 or higher), 212, 214 (or PSY 271), 215, 216 (or any foreign language 101 or higher)

Required Core Courses

Course No.	Course Name	Credit Hours
CJ 101	Criminal Law	3
CJ 102	Juvenile Law and Procedure	3
CJ 103	Probation and Parole	
or *CJ 104	Patrol Procedures	3
CJ 107	Criminal Procedure	3
CJ 108	Community-Oriented Policing	3
*CJ 111	Traffic Investigation and Enforcement	
or CJ 116	Correctional Services	3
CJ 112	Criminal Investigation	3
CJ 113	Organized and White Collar Crime	
or CJ 109	Introduction to Security Services	3
CJ 118	Report Writing	3
CJ 117	Public Policies and Strategies	3
FITT 170	Physical Fitness I	1

*CJ 299 may be substituted for CJ 104 or CJ 111.

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 221	Interpersonal Communication Studies	3
ENG 101	College Writing	3
ENG 119	Technical Communications	3
MATH 119	(or higher, except MATH 215 or 296)	4
PSY 105	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
SOC 111	Criminal Justice System	3
SOC 211	Social Problems	
or PSCI 110 or higher	.....	3
SOC 212	Juvenile Delinquency	3
SOC 214	Sociology of Corrections	
or PSY 271 Social Psychology	.....	3
SOC 215	Criminology	3
SOC 216	Ethnic and Minority Groups	
or any Foreign Language 101 or higher	.....	3
Total		72

CRITICAL CARE NURSE INTERNSHIP

Health Occupations Department

These specialized courses prepare RN's for entry-level positions in critical care nursing units. The courses are designed with a theory as well as clinical component over a term. Students apply theory in campus laboratories and at clinical sites with a selected preceptor.

The curriculum offers an introduction to the role of critical care nurse. It uses a systems and holistic approach to discuss management of patients with single or multi-system failure. It incorporates nursing theory and collaborative practice. The course emphasizes nursing practice, nursing process, and nursing diagnosis as related to the critically ill adult. Content includes common pathologies and nursing assessment of major critical conditions in the multicultural patient, dysrhythmias, hemodynamic monitoring, ventilator management, nutritional support, multiple trauma and multiple system failure, ethical/legal issues, and coping skills for the caregiver.

Written permission of the director of the nursing programs is required for enrollment. Those interested in the course must submit a transcript from their nursing program, a resume, proof of nursing licensure in New Mexico and two letters of recommendation from supervisors and/or nursing instructors. During the first week of the course, students must submit proof of current BLS, current immunizations and TB screening within the past year. There is a \$15 fee that covers the cost of hospital parking permits, name tags, standardized testing, and procedures in case of needle stick exposure or exposure to bodily fluids. Students enrolled in this course may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the Nursing Programs office at 224-4141.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
NURS 280	Critical Care Internship Theory	8
NURS 281C	Critical Care Internship Clinical	3
	Total.....	11

CULINARY ARTS

Trades & Service Occupations Department

Food service is an excellent field for students seeking a challenging career in a rapidly growing industry. The Culinary Arts associate degree program provides comprehensive training in safety, sanitation, quantity food preparation, food service nutrition, equipment use, human relations, supervisory skills and business practices. This program is nationally accredited by the American Culinary Federation Accrediting Commission.

Students must be free of chronic allergies. Each student must present a physician's certificate to TVI before the start of classes stating that the student is free from tuberculosis in a transmissible form.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: QUFD 101, 103L, 105L, 107L, 108L, BKNG 102, HT 132, FSMG 101A, 101B, ENG 101

Term 2: QUFD 111, 112L, 113L, 114L, 115L, HT 164, BA 150 or CP 176 or CSCI 101

Term 3: BKNG 101, 103L, 105L, 106L, ENG 101, NUTR 120, humanities/social and behavioral science elective

Term 4: BKNG 112L, 113L, 114L, 115L, COMM 130 or higher, MATH 119 or higher

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
QUFD 101	Quantity Food Theory I	2
QUFD 103L	Buffet Procedures	2
QUFD 105L	Breakfast/Lunch	2
QUFD 107L	Cold Food Preparation	2
QUFD 108L	Quantity Food Production	2
QUFD 111	Quantity Food Theory II	2
QUFD 112L	Dining Room Skills	2
QUFD 113L	Cold Food Preparation II	2
QUFD 114L	Stocks and Sauces—Sous Chef.....	2
QUFD 115L	Entree (Meat and Fish Preparation)	2
BKNG 101	Baking Theory I	2

BKNG 102	Food Service Math	2
BKNG 103L	Breads	2
BKNG 104L	Sweet Yeast Goods	2
BKNG 105L	Cake Batters	2
BKNG 106L	Pies and Pastries	2
BKNG 111	Baking Theory II	2
BKNG 112L	Yeast Doughs	2
BKNG 113L	Advanced Cake Batters	2
BKNG 114L	Pastries and Cookies	2
BKNG 115L	Icings and Fillings	2

Required Business Occupations Courses

HT 132	Hotel/Motel Human Resource Management	3
HT 164	Hotel/Motel Food and Beverage Management	3
FSMG 101A	Food Sanitation Principles	2
FSMG 101B	Applied Food Safety	1

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	.....	3
ENG 101	College Writing	3
	Humanities/Social or Behavioral Science Elective	3
MATH 119 or higher	.....	3-4
NUTR 120	Personal and Practical Nutrition	3
Total	.....	70-71

DATAENTRY

Business and Occupations Department

The wide use of computers in business and industry today has created a number of job opportunities for individuals with data entry skills.

The Data Entry course (prefix DE; see prerequisites) offers training designed to prepare students for entry-level positions in many areas of employment. Application for a verification of completion may be made with the director upon successful completion of the course.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

DESIGN DRAFTING ENGINEERING TECHNOLOGY

Technologies Department

Design Drafting Engineering Technology is a complex field for persons with a strong interest in mechanical design. The program integrates the concepts of mathematics and science into the technical courses. The use of computer assisted design drafting (CADD) is emphasized and applied throughout the program.

A well-rounded curriculum enables graduates to seek employment with engineering and scientific research or manufacturing organizations. Modern drafting stations, drafting machines and other typical drafting equipment are used along with microcomputers. Students are encouraged to join the TVI chapter of the Society of Manufacturing Engineers (SME).

Students must buy their own drafting tools and a full-function scientific calculator.

It is strongly recommended that all beginning students meet with the program chair to plan an individual course of study. Entry into a course without the necessary prerequisites may be allowed with the permission of the program chair.

The Design Drafting Engineering Technology associate degree program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET).

DDET course credits will transfer to New Mexico State University or other schools offering baccalaureate degrees in engineering technology.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3340.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
DDET 102L	Manufacturing Methods	3
DDET 106L	Basic CADD	3
DDET 111L	Mechanical Detailing	3
DDET 115L	Intermediate CADD	3
DDET 201L	Mathematics of Mechanics	3
DDET 205L	Machine Design	4
DDET 206L	Jig and Fixture Design	4
DDET 211L	Electromechanical Drafting	3
DDET 215L	Technical Computer Applications	3
DDET 216L	Dimensional Metrology	4
DDET 220L	Statics and Strengths of Materials	5
CP 175L or CP 284	Intro to C Language Programming Intro to Visual Basic	3
ENG 101	College Writing	3
ENG 119	Technical Communications	3
	Humanities or Social Science Elective	3
MATH 121 or MATH 150	College Algebra	3
	Advanced Algebra	4
MATH 162 or MATH 180	Calculus I	4
	Elements of Calculus	3
MATH 123	Trigonometry	2
PHYS 151/151L	General Physics I/Lab	5
PHYS 152/152L	Physics II/Lab	5
or CHEM 121/121L	General Chemistry I/Lab	4
	Total Credits for Degree	67–70

Optional Courses

DDET 104L	Introduction to Technical Drafting	4
DDET 116L	Basic Electronic Drafting	3
DDET 284	Geometric Dimensioning and Tolerancing	3
DDET 296	Topics	1–5
DDET 297	Special Problems	2–5
DDET 298	Internship	3
DDET 299	Cooperative Education	3
CP 177L	Introduction to Computer Animation/Graphics	3
CP 178L	Computer Animation I	3
MATT 173	Machine Tools Technology Skills	3
WELD 170	Welding Skills Improvement	3

DIAGNOSTIC MEDICAL SONOGRAPHY *(Pending CHE Approval)*

Health Occupations Department

Diagnostic Medical Sonography is a four-term associate of science degree program that provides didactic, lab and clinical experiences to attain the knowledge skills and professional behaviors necessary for employment in medical facilities and physicians offices. Upon completion of the program, graduates will be prepared to perform medical imaging procedures using diagnostic medical sonography techniques. The program prepares graduates to sit for the national board exams administered by the American Registry of Diagnostic Medical Sonographers.

Successful completion of this exam results in attaining the RDMS credentials (Registered Diagnostic Medical Sonographer). The program will seek accreditation status by CAAHEP (Commission on Accreditation of Allied health Education Programs).

All students are required to meet program pre-requisites prior to enrollment in the program core studies. Selection of 16 students to begin core coursework each year will be based upon the number of General Education requirements completed, and if necessary, the date of completion of the General Education prerequisite courses. In addition, prior to enrollment in core courses students are required to complete a physical exam and provide evidence of current immunizations. Students are required to provide their own transportation to classes, labs and clinicals. A \$40.00 uniform fee covers cost of lab coats, name tags and preventive lab tests in case of exposure to blood. Students must purchase their own textbooks.

Prerequisites are:

- High School Diploma or GED
- ENG 101 College Writing
- MATH 121 College Algebra
- PHYS 151/151L Physics I
- HUMANITIES ELECTIVE Psychology, Sociology, Philosophy (3 credits)

Suggested order of coursework upon completion of program prerequisites:

Term One: BIO 237L/247L, COMM 221, DMS 101, DMS 102L

Term Two: BIO 238/248L, DMS 103, DMS 120L, DMS 130

Term Three: DMS 210, DMS 211, DMS 220L, DMS 230

Term Four: DMS 260C, DMS 270L

DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
DMS 101	Introduction to DMS 1	
DMS 102L	Medical Concepts	4
DMS 103	DMS Pathophysiology	3
DMS 120L	General Sonography I	5
DMS 130	Sonographic Physics I	3
DMS 210	Cross Sectional Anatomy	3
DMS 211	Patient Care Concepts/Quality Control	3
DMS 220L	General Sonography II	7
DMS 230	Sonographic Physics II	3
DMS 260C	General Sonography Internship	12
DMS 270L	Clinical Seminar	1
<i>Required Arts & Sciences Courses</i>		
COMM 221	Interpersonal Communications	3
BIO 237/247L	Anatomy & Physiology I	4
BIO 238/248L	Anatomy & Physiology II	4
Total		70

DIESEL EQUIPMENT TECHNOLOGY

Trades & Service Occupations Department

This certificate program prepares students to work on a variety of diesel-powered equipment used in the trucking, heavy equipment and extraction industries. Courses also may be applied toward a degree in Transportation Technology.

The program meets in labs where students are introduced to safety and a variety of diesel engines, electrical and hydraulic test equipment, air conditioning equipment, drive train components, fuel injection test and calibration devices and related equipment.

Students must be free of chronic respiratory diseases and allergies to fuels and solvents. A valid driver's license and a good driving record are required by most employers.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

A suggested schedule per term includes:

Term 1: DETC 103, 103L, 104, 104L, 105, 105L

Term 2: DETC 111, 111L, 112, 112L, 113, 113L, 115

Term 3: DETC 201, 201L, 202, 202L, 203, 203L, EPT 214A, EPT 214B

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
DETC 103	Manual Shift Transmissions Theory	1
DETC 103L	Manual Shift Transmissions Lab	2
DETC 104	Drive Axles, Brakes and Automatic Transmissions Theory	1
DETC 104L	Drive Axles, Brakes and Automatic Transmissions Lab	3
DETC 105	Hydraulic Systems Theory	1
DETC 105L	Hydraulic Systems Lab	2
DETC 111	Diesel Engine Overhaul Theory	1
DETC 111L	Diesel Engine Overhaul Lab	3
DETC 112	Precision Measurement and Component Repair Theory	1
DETC 112L	Precision Measurement and Component Repair Lab	2
DETC 113	Diesel Engine Testing and Tune-up Theory	1
DETC 113L	Diesel Engine Testing and Tune-up Lab	2
AUTC 126L	Automotive Electrical	4
DETC 201	Diesel Electrical Theory	2
DETC 201L	Diesel Electrical Lab	3
DETC 202	Diesel Fuel Injection Theory	1
DETC 202L	Diesel Fuel Injection Lab	2
DETC 203	Transport Refrigeration/Air Conditioning Theory	1
DETC 203L	Transport Refrigeration/Air Conditioning Lab	2
EPT 214A	Occupational Safety I	1
EPT 214B	Occupational Safety II	1
Total		37

E-COMMERCE

Business Occupations Department

The Internet has created a new, electronic, global economy and retail and wholesale business processes are being transformed. E-Commerce is a passport to managing information in a virtual organization and conducting online business in a global economy. The E-Commerce program provides opportunities to integrate business knowledge and skills with Internet-based commerce (retail and wholesale) for developing, conducting and managing a business in a virtual environment. Students will focus on understanding, creating, managing and maintaining online business processes which include marketing, sales, customer service, payment systems, database design and management, business law, cash and credit security, purchasing, knowledge management and Web-site design.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term of the E-Commerce program is listed below:

Certificate

Term 1: ACCT 101A, BA 113, BA 121 or ENG 101, BA 150, CIS 130, 160

Term 2: BA 122 or ENG 119, CIS 164, 180, 165, ECM 101, 102, 105, 176

Term 3: ECM 220, 223, 224, CIS 155, 156, 278, COMM 110

Additional Degree Requirements

Term 4: BA 133, CIS 157, ECM 226

Term 5: A&S courses

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101A	Accounting IA	3
BA 113	Introduction to Business	3

BA 121	Business English	
or ENG 101	College Writing (required for degree)	3
BA 122	Business Writing	
or ENG 119	Technical Communications	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 156	Intermediate Access (5 weeks) [previously MMS 168]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CIS 164	Hypertext Markup Language (HTML) (5 weeks) [previously MMS 171]	1
CIS 165	Web Construction Coding (5 weeks) [previously MMS 172]	1
CIS 180	Extensible Markup Language (XML) (5 weeks) [previously MMS 177]	1
CIS 278	Business Web-Site Design [previously MMS 276]	3
COMM 110	Mass Media and Society	3
ECM 101	Web Accounting	3
ECM 102	Internet Customer Service	3
ECM 105	Cyber Sales	3
ECM 176	Introduction to Internet Commerce (5 weeks) [previously MMS 176]	1
ECM 220	Web Marketing	3
ECM 223	Online Payment Systems	3
ECM 224	Knowledge Management	3

For a certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

Total Required for Certificate 48

ADDITIONAL DEGREE REQUIREMENTS

BA 133	Principles of Management	3
CIS 157	Advanced Access (5 weeks) [previously MMS 169]	1
ECM 226	Online Business Law	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Social or Behavioral Science Elective	3
	Total Required for Degree	64-65

Optional Courses

ECM 260	Business Web Security	3
ECM 270	Web Site Management	3
ECM 280	Web Customer Identification	3
ECM 296	Topics	1-3
ECM 298	Internship	4
ECM 299	Cooperative Education	4

ELECTRICAL TRADES

Trades & Service Occupations Department

The Electrical Trades certificate program provides the student with job-site safety training, OSHA compliance and entry-level skills for employment in electrical construction, maintenance or related fields. This three-term certificate is offered for those wishing to pursue an Electrical Trades Certificate of Competency from the State Regulation and Licensing Department (EE-98J). For those wishing to earn credit towards an associate in applied science degree in construction technology, a fourth term of electrical courses is available.

Lab instruction is conducted on- and off-campus, enabling students to gain on-the-job experience in electrical installation. Electrical safety, circuitry, residential electrical materials, residential wiring, residential services,

commercial/industrial materials and industrial power distribution are covered in the lab activities. Theory instruction includes safety, National Electrical Code (NEC) compliance, technical information, math, employment skills, computer skills, residential and commercial blueprint reading and material analysis.

Students must have normal color differentiation, be free from chronic respiratory diseases and allergies and be able to lift 50 pounds. Most employers require a valid driver's license and a good driving record.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

A suggested schedule per term includes:

Term 1: ELTR 101, 102, 103L, 104L

Term 2: ELTR 112, 113, 114L, 115L

Term 3: ELTR 201, 203, 204L, 205L

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ELTR 101	Electrical Theory 1	4
ELTR 102	Electrical Math 1	3
ELTR 103L	Electrical DC/AC Lab	3
ELTR 104L	AC Circuitry, Motors, Generators	3
ELTR 112	Blueprint Reading 1	3
ELTR 113	Electrical Theory II	4
ELTR 114L	Wiring Lab	3
ELTR 115L	Electrical Services.....	3
ELTR 201	Electrical Theory	4
ELTR 203	Electrical Motor Control Theory	3
ELTR 204L	Industrial Motor Control Lab	3
ELTR 205L	Industrial Power Distribution	3
	Total.....	39

Optional Courses

ELTR 170	Electrical Wiring Circuitry	2
ELTR 171L	Conduit Hand Bending Fundamentals	1
ELTR 173	Industrial Motor Control Circuitry	2
ELTR 174L	Industrial PC Motor Control	3
ELTR 175	Fiber Optical Cable Installation	2
ELTR 176	Electrical Journeyman Preparation	3
ELTR 211	Industrial Electrical Circuitry and Safety	3
ELTR 212	Programmable Logic Controller Theory	4
ELTR 213L	PLC Installation and Operation	3
ELTR 214L	PLC Systems Operation and Troubleshooting	3

ELECTRONICS ENGINEERING TECHNOLOGY

Technologies Department

The Electronics Engineering Technology program emphasizes the application of scientific and engineering methods along with related technical skills to support engineering activity in research, development, production, maintenance and operation.

This program represents a rigorous, engineering-type course of study. Lectures, laboratory work and considerable homework provide the basis for the skills necessary for employment in a broad occupational area at levels between the electronics technician and the electrical engineer.

TVI laboratory facilities contain modern equipment for testing, troubleshooting, calibrating, analyzing and designing electronic circuits. Such circuits may be found in communications equipment, computers, electronic instruments and many other electronic devices.

Students applying for this program should be seriously interested in the study of electronics with emphasis on mathematics and science and should have high standards of excellence. It is strongly recommended that all beginning students meet with the program chair to plan an individual course of study.

The Electronics Engineering Technology associate degree program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET).

EET course credits will transfer to New Mexico State University or other schools offering baccalaureate degrees in engineering technology.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-5919.

DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ENG 101	College Writing	3
ENG 119	Technical Communications	3
MATH 121	College Algebra	3
or MATH 150	Advanced Algebra	4
EET 107L	Graphics and Analytical Methods	3
EET 109L	Circuit Analysis I	5
EET 113L	Structured Computer Programming	3
EET 117L	Digital Electronics I	3
MATH 123	Trigonometry	3
MATH 162	Calculus I	4
or MATH 180	Elements of Calculus I	3
EET 119L	Circuit Analysis II	5
EET 207L	Digital Electronics II	3
EET 208L	Microprocessors	4
EET 209L	Electronic Devices	5
EET 218L	Microprocessor Interfacing	3
EET 219L	Electronic Systems	5
CHEM 111/112L	Introduction to Chemistry/Lab	
or CHEM 121/121L	General Chemistry/Lab	4
PHYS 151/151L	Physics I/Lab	
or PHYS 160/160L	General Physics I/Lab	5
	Humanities or Social Science Elective	3
	Total Credits for Degree	66–68

Optional Courses

EET 296	Topics	1–5
EET 297	Special Problems	3–5
EET 298	Internship	3
EET 299	Cooperative Education	3

ELECTRONICS TECHNOLOGY

Technologies Department

The Electronics Technology program, offering both certificate and associate degree options, provides the student with a broad base of skills in analog and digital electronics with electromechanical and computer applications. To receive an associate degree the student must complete the core requirements, a student-selected concentration, and additional Arts and Sciences requirements. The associate degree offers a concentration in General Concentration and/or Process Control.

The Electronics Technology core curriculum provides students with the fundamentals of electronics with emphasis on digital equipment such as computers and electronic control devices. The General Concentration complements the core curriculum with an understanding of a student-selected area or emphasis. Courses like Consumer Electronics provide students troubleshooting techniques for digital video and audio equipment and upgrading and repairing PC's. The Laser courses provide hands-on laboratory experiences with several types of lasers. After the successful completion of the upgrading and repairing PC's classes, students will have the skills to obtain an A+ certification, which is an industry-recognized credential. The Process Control Concentration complements the core curriculum

with an in-depth study of maintenance and troubleshooting of electromechanical systems, sensor and feedback theories, industrial robotics, and computer integrated manufacturing. Laboratory facilities contain modern equipment for testing, troubleshooting, calibrating, analyzing and designing electronic and electromechanical systems. Laboratory exercises require students to apply their general education courses through written reports, computer generated documents, and mathematical calculations. Hands-on experiences are addressed throughout the entire program. Teamwork is required for the design and building of several lab projects.

Students entering Electronics Technology courses must meet the prerequisites of reading at a minimum of eighth-grade level, MATH 100B or equivalent on placement test, and CP 176 or equivalent. Entry into a course without the prerequisite may be allowed with the permission of the director of the program.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3349.

CERTIFICATE AND DEGREE CORE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ELEC 103A	Electronics Fundamentals A	4
and ELEC 103B	Electronics Fundamentals B	4
or ELEC 103L	Electronics Fundamentals	8
ELEC 104	Electronics Mathematics	5
ELEC 105L	Digital Circuits	4
ELEC 111L	Introduction to Photonics	4
ELEC 114A	Semiconductor Devices A	3
and ELEC 114B	Semiconductor Devices B	3
or ELEC 114L	Semiconductor Devices	6
ELEC 118L	Electromechanical Devices	6
ELEC 203L	Introduction to Microprocessors	6
ELEC 205L	Analog Circuits	6
ELEC 214L	Troubleshooting Techniques	3
ENG 101	College Writing	3
ENG 119	Technical Communications	3
	Humanities or Social Science Elective	3
	Total Credits for Certificate	57

ADDITIONAL DEGREE REQUIREMENTS

Required Arts and Sciences Courses

CHEM 111/112L or CHEM 121/121L or PHYS 151/151L or PHYS 160	4-5
MATH 121 or MATH 145 or MATH 150 or MATH 162 or MATH 180	3-4

(AND CHOOSE ONE CONCENTRATION)

General Electronics Concentration (Choose 18 Credits from Among These:)

ELEC 217	Upgrading and Repairing PCs	3
ELEC 220	Digital Signal Processing Systems	6
ELEC 221	Advanced Upgrading and Repairing PCs	3
ELEC 223	RF/Consumer Electronics	6
CP 182	Networking Topologies/NOS Environments	3
CP 183	Overview of Network Operating System Environments	3
CP 285	Troubleshooting Networks	3
LEOT 205L	Introduction to Laser Systems	4
LEOT 206	Optics	6
LEOT 217L	Advanced Laser Systems with Applications	6
PC 212L	Vacuum System	2
	Technical Elective (see list below)	3
	Total for Degree	82-84

Process Control Concentration

PC 201	Electromechanical Systems	3
PC 203	PLC Theory and Applications (7.5 weeks)	2

PC 204	Feedback Theory and Applications (7.5 weeks)	2
PC 205	Sensor Theory and Applications (7.5 weeks)	2
PC 211	Power RF	2
PC 212L	Vacuum Systems	2
<i>Plus five additional credits from among these courses:</i>		
PC 206	CIM Theory and Applications (7.5 weeks)	2
PC 207	Mobile Robot Design and Construction (7.5 weeks)	2
PC 208	Industrial Robot Theory and Applications (7.5 weeks)	2
SMT 201/201L	Semiconductor Manufacturing Technology I Theory/Lab	3
	Technical Elective (see list below)	3
	Total for Degree	82-84

Technical Electives

CP 177L	Introduction to Computer Animation/Graphics	3
CP 178L	Computer Animation I	3
CP 274L	Introduction to UNIX and WANs	3
CP 278A	C++ Language Programming I	3
ELEC 276L	Soldering Techniques (7.5 weeks)	2
ELEC 277L	Advanced Soldering Techniques (7.5 weeks)	2
ELEC 279	Electronics Refresher	3
ELEC 282	Pulsed Power	3
ELEC 296	Topics	1-8
ELEC 297	Special Problems	2-8
ELEC 298	Internship	3
ELEC 299	Cooperative Education	3
MATT 102	Metals Blueprint Reading I	2
MATT 105L	Basic Supporting Machine Tool Principles	2

ELEMENTARY EDUCATION *(Pending CHE Approval)*

Health Occupations Department

The Elementary Education (EE) Program facilitates the learning of theory and skills required for working with children in the public school system in grades kindergarten through eighth (K-8). The two-year program includes classroom instruction and practical experience within the Albuquerque Public School System (APS). The program leads to an associate of arts degree with one of four specialty concentrations.

- Bilingual
- Language Arts (Literacy)
- Special Education

Graduates from the program may transfer to the University of New Mexico Teacher Preparation Program. Admission to the UNM program requires successful completion of two parts of the New Mexico Teacher's Assessment Exam and a personal interview. The associate degree will also enable graduates to serve as substitute teachers within APS.

Note: State law requires a background check on all persons seeking employment with the public school system.

Prerequisites are successful completion of English 100, Math 100A and Reading 100 or equivalent.

ARTS & SCIENCE COURSES REQUIRED FOR ASSOCIATE DEGREE

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ENG 101	College Writing	3
ENG 102	Analytic and Argumentative Writing	3
COMM 270	Communication Studies for Teachers	3
MATH 111	Math for Elementary and Middle School Teachers I	3
MATH 112	Math for Elementary and Middle School Teachers II	3
MATH 215	Math for Elementary and Middle School Teachers III	3
HIST 101	Western Civilization I	3
or HIST 102	Western Civilization II	3

HIST 161	History of the United States I	
or HIST 162	History of the United States II	3
HIST 260	History of New Mexico	3
HIST	Elective	3
<i>Choose 3 of the following:</i>		
ASTR	101/111L Introduction to Astronomy, Astronomy Lab	
BIO	110/112L Biology for Non-Majors, Lab for Non-Majors	
CHEM	111/112L Introduction to Chemistry, Chemistry Lab	
PHYS	151/151L Physics I, Physics Lab	12
ART 101	Introduction to Art	
or ART 251	Art of the American Southwest	3
PSY 105	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
	Subtotal	51

Choose One Concentration

Concentration: Language Arts

CDV 204	Introduction to Classroom Learning	3
CDV 133	Introduction to Literacy in Childhood	4
CDV 129C	Practicum I	2
CDV 203C	Practicum II	2
ENG 102	Literature	6
	Subtotal	17
	Total	68

Concentration: Bilingual

CDV 204	Introduction to Classroom Learning	3
CDV 216	Individual and Family Diversity	3
CDV 217	Diversity in Early Childhood Programs and Assessment	2
CDV 129C	Practicum I	2
CDV 203C	Practicum II	2
SPAN 101	Beginning Spanish (or higher)	3
SPAN 102	Beginning Spanish II (or higher)	3
	Subtotal	18
	Total	69

Concentration: Special Education

CDV 204	Introduction to Classroom Learning	3
SOC 211	Social Problems	3
<i>Choose one of the following:</i>		
CDV 103	Preschool Growth and Development	
or CDV	201 Middle Childhood Growth and Development	
or CDV	202 Adolescent Growth and Development	3
CDV 206	Working with Special Needs Children	3
CDV 129C	Practicum I	2
CDV 203C	Practicum II	2
	Subtotal	16
	Total	67

EMERGENCY MEDICAL TECHNICIAN

Health Occupations Department

This special course trains ambulance attendants to recognize, stabilize and transport patients with life-threatening emergencies. Classes include theory and lab. A TVI and EMS (Emergency Medical System) Academy certificate is awarded to students completing the course, who are then eligible to take the state licensure exam to become licensed emergency medical technicians.

Prior to enrollment each student must have current Basic Life Support (BLS) provider CPR certification and must be a high school graduate. BLS CPR certification is offered through the American Heart Association. A high school diploma or equivalent is required for EMT licensure.

The course is offered during evening hours. Participants pay a TVI registration fee, a \$40 uniform fee, a \$15 supply fee and purchase a textbook. The uniform fee covers the cost of the EMS academy course syllabus and EMS certification.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4111.

Course No.	Course Name	Credit Hours
EMS 160L	Basic Emergency Medical Technician Skills	6

ENTREPRENEURSHIP

Business Occupations Department

The Entrepreneurship courses (prefix ENTR) are for persons who plan to open a small business or who own or manage a business and want further training in principles, operations and/or expansion.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits. Application for a verification of completion may be made with the director upon successful completion of the course.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-3823.

ENVIRONMENTAL TECHNOLOGY

Trades & Service Occupations Department

The Environmental Technology associate of applied science degree program provides basic classroom instruction in the diverse field of environmental and occupational safety from a health and safety perspective. The curriculum also provides coursework designed to upgrade skills of individuals already employed in the field.

The student receives a broad, general understanding of environmental problems, as well as physical science instruction, in preparation for entry-level jobs. Instruction is provided in biology, chemistry, physics, ecology, environmental legislation, regulation compliance and abatement. The program addresses key areas of environmental protection including biological and hazardous waste, water quality protection, air quality protection, soil, domestic and industrial waste control, workplace safety, energy management and recycling.

At least 12 students must enroll in EPT courses or the course will be canceled.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: EPT 102, 111, 214A, 214B, 214C, CHEM 111/112L or 121/121L, ENG 101, MATH elective

Term 2: EPT 112, 131, 173, BIO 111, PHYS 102, MATH elective

Term 3: EPT 211L, 215, BIO 121/121L or 123/124L, BA 150 or CP 176 or CSCI 101

Term 4: EPT 212, 232, 233, 299 (or approved elective), CHEM 212, ENG 119

DEGREE REQUIREMENTS

Course No.	Course Name	Credit Hours
EPT 102	Emergency Response	3
EPT 111	Environmental Technology I	4
EPT 112	Hazards and Protection Training	3
EPT 173	Water Quality Protection	3

EPT 211L	Environmental Technology II/Lab	4
EPT 212	Energy and Waste Management	3
EPT 214A	Occupational Safety I.....	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
EPT 215	Environmental Instrumentation and Analysis	3
EPT 131	Materials Categorization and Analysis	4
EPT 232	Air Quality Protection	1
EPT 233	Environmental Bioremediation	4
EPT 299	Cooperative Education (or approved elective)	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

BIO111	Environmental Science	3
BIO121/121	Principles of Biology I/Lab	
or BIO123/124L	Biology for Health Sciences/Lab	4
CHEM 111/112L	Introduction to Chemistry/Lab	
or CHEM 121/121L	General Chemistry I/Lab	4
CHEM 212	Organic Chemistry and Biochemistry	4
	Communications Elective (oral communications course)	3
ENG 101	College Writing	3
ENG 119	Technical Communications	3
	Math Electives (MATH 120 and/or higher)	6-7
PHYS 102 or higher	.....	3
	Humanities/Social or Behavioral Science Elective	3
	Total	75-76

Approved Elective Courses

EPT 170	Introduction to OSHA Compliance	3
EPT 171	Introduction to Safety Management	3
EPT 172	Introduction to Soil Science	3
EPT 174	Basic Site Remediation Technology	3
EPT 175	Pest Management	3
EPT 176	Food Resources and the Environment	3
EPT 177	Business Aspects of Environmental Technology	3
EPT 178	Industrial Hygiene for Environmental Technicians	3
EPT 179	Sampling Design	3
EPT 180	Horticulture	3
EPT 182	Landscape Irrigation Design	3
EPT 270	Air Pollution Meteorology	3
EPT 271	Ambient Air Monitoring and the Clean Air Act	3
EPT 299	Cooperative Education	3

FINANCIAL SERVICES

Business Occupations Department

The Financial Services program prepares students for entry-level positions and job advancement as tellers, operations supervisors, customer assistants, financial service representatives and banking support staff. Information about this program is available from the director at 224-3821 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/assoc. of applied science degree program in Financial Services includes:

Certificate

Term 1: ACCT 111, BA 113 or 133, BA 121 or ENG 101, BA 150, BANK 101

Term 2: ACCT 101, BA 222, BANK 103 or BA 211, BANK 105

Term 3: ACCT 102, BA 252, BANK 109, BANK 111, approved elective

Additional Degree Requirements

Term 3: COMM 130

Term 4: Approved elective, ENG 102 or 119 or 219 or COMM 232, ECON 200, MATH 121 or 150 or 162 or 180

Term 5: MATH 145 or 245, SOC 101, PHIL 245B, ECON 201

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101	Accounting I	
	or ACCT 101A and ACCT 101B	6
ACCT 102	Accounting II	3
ACCT 111	Business Math	3
BA 113	Introduction to Business	
	or BA 133 Principles of Management (depending on business experience)	3
BA 121	Business English	
	or ENG 101 College Writing (ENG 101 required for degree)	3
BA 150	Introduction to Computers	
	or CP 176 Introduction to Technology Computer Applications	
	or CSCI 101 Computer Literacy	4
BA 222	Principles of Marketing	3
BA 252	Customer Relations	3
BANK 101	Principles of Banking	3
BANK 103	Law and Banking Principles	
	or BA 211 Business Law	3
BANK 105	Consumer Lending	3
BANK 109	Bank Accounting (5 weeks)	1
BANK 111	Personal Financial Management (5 weeks)	1
	Approved Elective	3
	Total Required for Certificate	42
<i>Additional Degree Requirements</i>		
	Additional Approved Elective	3
COMM 130	Public Speaking	3
ECON 200	Macroeconomics	3
ECON 201	Microeconomics	3
ENG 102 or 119 or 219 or COMM 232		3
MATH 121 or 150 or 162 or 180		3-4
MATH 145	Introduction to Probability and Statistics or MATH 245	3
SOC 101	Introduction to Sociology	3
PHIL 245B	Ethics	3
	Total Required for Degree	69-70
<i>Approved Electives</i>		
ACCT 240	Tax Accounting I	3
ACCT 254	Electronic Spreadsheets	3
BA 101	Introduction to Quality Management (5 weeks)	1
BA 102	Fundamentals of Continuous Quality Improvement (CQI) (5 weeks)	1
BA 103	Quality Tools (5 weeks)	1
BA 104	Team Building for Quality (5 weeks)	1
BA 105	Re-engineering for Quality (5 weeks)	1
BA 106	Quality Leadership (5 weeks)	1
BA 215	Money and Banking	3

Programs of Study

BA 270	Real Estate Law	3
BA 271	Real Estate Practice	3
BA 272	Real Estate Appraisal	3
BA 273	Real Estate Finance	3
BANK 107	Analyzing Financial Statements	3
BANK 115	Commercial Lending	3
BANK 296	Financial Services Topics	1-3
BANK 298	Internship	4
BANK 299	Cooperative Education	4
PHIL 245B	Business Ethics	3
	CIS Courses	1-3
	Science, Fine Arts, Language (other than English)	1-6

FIRE SCIENCE

Trades & Service Occupations Department

The Fire Science program offers career preparation for students with a strong interest in the fields of fire protection and emergency response. Upon completion of the associate of applied science degree, graduates will be qualified for a variety of fire service and emergency response positions in the fields of fire protection services, industrial fire protection, hazardous materials, insurance services, fire protection systems service and fire prevention. This program maintains a close working relationship with area providers of fire protection and emergency response services.

The program consists of a comprehensive core courses supplemented by a wide range of electives. In addition, the student will complete Arts & Sciences courses. It is recommended that entering students meet with the faculty to discuss their career and educational objectives.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule per term includes:

Term 1: FS 102, 103, FITT 170, EPT 214A, 214B, 214C, ENG 101, MATH 120

Term 2: FS 111, 112, BA 150 or CP 176 or CSCI 101, CHEM 111/112L, ENG 119, COMM 130

Term 3: FS 201, 202, 203, 211, EMS 160L, PSY 105 or higher, SOC 101

Term 4: FS 212, 213, 214, 215, 216 or 299 (15 credits only), PHYS 102, SOC 216

DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
FITT 170	Physical Fitness I	1
EPT 214A	Occupational Safety I	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
FS 102	Fire Service Organization	3
FS 103	Introduction to Fire Science	3
FS 111	Fire Prevention	3
FS 112	Building Construction	3
FS 201	Fire Protection Systems	3
FS 202	Managing Community Fire Protection	3
FS 203	Hazardous Material	3
FS 211	Incident Command and Control	3
*EMS 160L	Basic Emergency Medical Technician Skills	7
*FS 212	Fire Investigation	3
*FS 213	Industrial Fire Protection	3
*FS 214	Facilities Inspection	3
*FS 215	Tactics I	3
*FS 216	Tactics II	3
*FS 299	Cooperative Education (may be repeated for up to 9 credits)	3

**Students have the option of any of these courses for a total of 15 credit hours.*

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

CHEM 111/112L	Introduction to Chemistry/Lab	4
COMM 130	or higher	3
ENG 101	College Writing	3
ENG 119	Technical Communications	3
MATH 119	or higher	4
PHYS 102	Introduction to Physics	3
PSY 105	or higher	3
SOC 101	Introduction to Sociology	3
SOC 216	Ethnic and Minority Groups	3
Total.....		76

FITNESS TECHNICIAN

Trades & Service Occupations Department

The Fitness Technician (FITT) certificate program's intent is to increase the availability of qualified professionals who assess an apparently healthy individual's present physical fitness level and health status as well as design and implement an appropriate exercise program. The goals are:

1. To prepare individuals for employment in the health and fitness industry as personal fitness trainers.
2. To prepare individuals to sit for the American College of Sports Medicine's Health/Fitness Instructor and the National Strength and Conditioning Association's Certified Personal Trainer certification exams.
3. To provide course work for continuing education units (CEUs) required by certifying organizations to maintain certification as a personal fitness trainer.

In order to graduate from the Fitness Technician program, a student must have current American Red Cross or American Heart Association CPR certification. A new class begins every fall term.

The program also offers fitness classes that are required for other programs and are open to all students.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

A suggested schedule includes:

Term 1: FITT 209, 211, 277, computer course

Term 2: FITT 225, 289, 290, 298 or 299

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
FITT 209	Introduction to Exercise Physiology	3
FITT 211	The Business of Personal Fitness Training	3
FITT 225	Fitness and Weight Control	3
FITT 277	Kinesiology	3
FITT 289	Fitness Assessment and Exercise Prescription	3
FITT 290	Exercise Prescription for Special Populations	3
FITT 298	Fitness Technician Field Experience	
or FITT 299	Cooperative Education	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
Total.....		25

Optional Courses

FITT 170	Physical Fitness I	1
FITT 171	Physical Fitness II	1
FITT 173	Circuit Training	1
FITT 174	Weight Training for Women	1
FITT 175	Beginning Step Aerobics	1
FITT 176	Intermediate Step Aerobics	1

FOOD SERVICE MANAGEMENT

Business Occupations Department

The Food Service Management certificate program is available to persons interested in the hospitality/food service field who want the skills necessary to become entry-level supervisors or managers. Safety and sanitation procedures are stressed.

Classroom instruction includes theory in human relations, supervision and business practices. Cooperative education is available with the supervision of the instructor.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

Course No.	Course Name	Credit Hours
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
FSMG 101A	Food Sanitation Principles	2
FSMG 101B	Applied Food Safety	1
HT 132	Hotel/Motel Human Resources Management	3
HT 164	Food and Beverage Service	3
HT 298	Internship	
or HT 299	Cooperative Education	4
	Total	17

HEALTHCARE TECHNICIAN

Health Occupations Department

The one-term Healthcare Technician certificate program prepares persons to assist nurses in hospitals. Topics include nursing tech skills, health unit coordinating, and communication skills. Students learn sterile techniques, urinary catheterizations, basic respiratory care and basic physical therapy skills. They also learn to transcribe doctor's written orders, order supplies, place EKG leads, draw blood, collect specimens, prepare and maintain equipment, and communicate with patients, families and healthcare personnel.

The 12-week, 330-hour, program includes six weeks of classroom/lab instruction and six weeks of experience in local hospitals and/or clinics.

There is a \$40 uniform fee that includes a lab coat, bandage scissors, name tag, hospital parking permits and health tests. There is a \$10 supply fee. Students are required to have their own stethoscopes and transfer belts.

Prerequisites are:

- graduation from TVI Nursing Assistant program within past two years and C.N.A. certification or:
- C.N.A. certification and MATH 099 and ENG 099, RDG 099 or equivalent
- successful completion of written Nursing Assistant exam
- successful completion of NA skill exam
- current CPR certification
- current immunizations (MMR, PPD, hepatitis B, and tetanus)

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4121.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
HCT 102/102L	HCT Health Unit Coordinator Skills and Laboratory	2
HCT 103/103L	HCT Special Skills Theory and Laboratory	4
HCT 104	HCT Communication Skills	2
HCT 120C	HCT Multi-skilled Clinical	3
HCT 130C	HCT Health Unit Coordinating Clinical	1
Total.....		12

HEALTH UNIT CLERK

Health Occupations Department

The Health Unit Clerk certificate program prepares persons to perform secretarial and management skills in the hospital, elder care center or out-patient clinic. Transcribing doctors' written orders, typing, ordering supplies, answering the telephone, working with computers and communicating with patients, visitors and staff are typical activities. The 15-week program has nine weeks of classroom theory and six weeks of clinical practice in local hospitals. It is offered each term at the South Valley Campus.

Enrollment in the Health Unit Clerk program requires a high school diploma or equivalent and a passing score on the reading, English, and math placement test. Students must also have good written and oral communication skills because they perform a pivotal role with all hospital personnel. There is a \$30 uniform fee which covers the cost of a uniform top, hospital parking permits, name tag and health tests. Neutral-colored slacks or skirts are required for clinical but are not covered by the fee.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-5069.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
HUC 101L	Health Unit Clerk Theory and Lab	8
HUC 131C	Health Unit Clerk Clinical Practice	4
Total.....		12

HOSPITALITY AND TOURISM

Business Occupations Department

The Hospitality and Tourism program combines general business knowledge with practical skills necessary for a variety of employment opportunities in the continually changing hospitality and tourism industry. The graduates should be in a position to provide employers with specialized knowledge and skills and to engage immediately in the day-to-day activities of a hospitality and tourism business.

The degree program offers students their choice of three concentrations: Gaming Operations and Casino Management, Hospitality Operations and Hotel Management and Golf Course Supervision and Operations.

The four-term certificate program requires at least seven (7) Educational Institute American Hotel & Motel Association (EI-AH&MA) courses developed by industry leaders in the global hospitality industry. This is an additional credentialing process. Students interested in receiving the AH&MA Educational Institute certificate should see the director.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/associate of applied science degree program in Hospitality and Tourism includes:

Certificate

Fall 1: BA 150, HT 101, ENG 101, COMM

Spring 1: ACCT 101A, HT 104, 108, 132

Summer 1: HT 141, 168, HT 298 or 299, HT concentration course

Fall 2: HT concentration choice, A&S course

Additional Degree Requirements

Spring 2: BA 121, HT 221, 295, HT elective

Summer 2: A&S courses

HOSPITALITY AND TOURISM CORE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101A	Accounting IA	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
COMM	130 or 221 or 232 or 240	3
ENG 101	College Writing	3
HT 101	Introduction to Hospitality and Tourism Today	3
HT 104	Tourism and the Hospitality Industry	3
HT 108	Hospitality Supervision	3
HT 132	Hotel/Motel Human Resources	3
HT 141	Marketing of Hospitality Services	3
HT 168	Food and Beverage Controls	3
HT 298	Internship	
or HT 299	Cooperative Education	4
	Subtotal	35

CONCENTRATIONS FOR CERTIFICATE OR DEGREE (ONE CONCENTRATION REQUIRED)

Gaming Operations and Casino Management Concentration

HT 131	Club Management	3
HT 250	Gaming Operations	3
HT 252	Casino Management	3
HT 254	Gaming Controls	3
	Total Required for Certificate	47

Hospitality Operations and Hotel Management Concentration

HT 106	Front Office Procedures	3
HT 128	Hotel/Motel Housekeeping Management	3
HT 172	Hospitality Purchasing Management	3
HT 206	Hospitality Industry Computer Systems	3
	Total Required for Certificate	47

Golf Course Supervision and Operations Concentration

HT 131	Club Management	3
HT 260	Golf Course Operations	3
HT 262	Golf Course Maintenance	3
HT 296	Topics Course	3
	Total Required for Certificate	47

HOSPITALITY AND TOURISM DEGREE REQUIREMENTS

Must Complete ALL HT Certificate courses plus the following:

BA 121	Business English	3
	HT Approved Elective**	3
HT 221	Hospitality Law	3
HT 295	Managerial Decisions in the Hospitality Industry	3
	Subtotal	59

Additional Degree Requirements

ECON 200	Macroeconomics or higher level	3
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MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
Total Required for Degree		68-69

Approved Electives**

BA 200 or higher		
ECM 220	Web Marketing	3
FSMG 101A	Food Sanitation Principles	2
FSMG 101B	Applied Food Safety	1
HT 106	Front Office Procedures	3
HT 121	Hotel/Motel Organization and Administration	3
HT 124	Managing Quality in the Hospitality Industry	3
HT 126	Hotel/Motel Facilities Management	3
HT 128	Hotel/Motel Housekeeping Management	3
HT 130	Resort Management	3
HT 131	Club Management	3
HT 134	Hospitality Energy and Water Management	3
HT 136	Hospitality Industry Training	3
HT 138	Hospitality Industry Engineering System	3
HT 144	Hospitality and Sales Marketing	3
HT 146	Convention Management and Service	3
HT 161	Hotel/Motel Food and Beverage Management	3
HT 164	Food and Beverage Service	3
HT 166	Quality Sanitation Management	3
HT 170	Food Production Principles	3
HT 172	Hospitality Purchasing Management	3
HT 204	Managerial Accounting for Hospitality Industry	3
HT 206	Hospitality Industry Computer Systems	3
HT 224	Hotel/Motel Law	3
HT 226	Hotel/Motel Security Management	3
HT 250	Gaming Operations	3
HT 252	Casino Management	3
HT 254	Gaming Controls	3
HT 260	Golf Course Operations	3
HT 262	Golf Course Maintenance	3
HT 296	Topics Course	1-3
IB 101	Introduction to International Business	3
	CIS Computer Courses	3-4

For certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

***All elective courses are not offered every term.*

INTERNATIONAL BUSINESS

Business Occupations Department

The International Business program combines general business skills with contemporary international business skills. Students are prepared for the constantly changing international business environment. Graduates of this program should be able to work effectively in firms and government agencies whose operations center around international trade and to engage in international entrepreneurial activities.

The program provides a foundation in written and verbal communications, accounting principles, basic computer skills and international business.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/associate of applied science degree in International Business includes:

Certificate

- Term 1:* ACCT 101, 111, BA 121 (or ENG 101), IB 101, foreign language
- Term 2:* ACCT 102, BA 150, ENTR 102, GEOG 102, IB 201, foreign language
- Term 3:* GEOG 201, IB 202, 203, 205, foreign language

Additional Degree Requirements

- Term 4:* ENG 101, 119, MATH, PHIL 245B

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101	Accounting I	
or ACCT 101A and ACCT 101B		6
ACCT 102	Accounting II	3
ACCT 111	Business Math	3
BA 121	Business English	
or ENG 101	College Writing (required for a degree)	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
ENTR 102	Entrepreneurship in a Global Setting	3
GEOG 102	Human Geography	
or COMM 291	Intercultural Communication Studies	3
GEOG 201	World Regional Geography	3
IB 101	Introduction to International Business	3
IB 201	International Marketing	3
IB 202	International Management	3
IB 203	International Finance and Trade	3
IB 205	Fundamentals of Exporting/Importing	3
	Foreign Language*	9–12
	Total Required for Certificate	52–55

For a certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

**Various languages are acceptable.*

Additional Degree Requirements

MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3–4
MATH 145	Probability and Statistics	3
PHIL 245B	Business Ethics	3
	Total Required for Degree	61–65

Optional Courses

BA 211	Business Law	3
BA 296	Topics	1–3
BA 298	Internship	
or BA 299	Cooperative Education	4

JUDICIAL STUDIES

Business Occupations Department

The Judicial Studies certificate program provides educational and professional development courses for court personnel and individuals interested in a career with New Mexico courts.

The program familiarizes students with the operations of the New Mexico municipal, magistrate, metropolitan, district, appellate and supreme courts, as well as federal and tribal courts. Ethical issues are also addressed. Students are introduced to substantive and procedural law, basic legal skills, fundamental legal theory and legal analysis skills.

To earn a certificate in Judicial Studies, students must complete core courses in computer literacy, introduction to the judicial system, interpersonal communication, business communication, basic English and basic math and an internship. In addition, students are required to complete three credits of elective coursework in each of the following categories: legal, government and cultural, and management.

Information about this program is available from the director at 224-3845 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate in Judicial Studies includes:

Term 1: BA 150, COMM 221 or 225, ENG 101, JUD 101, 102, elective

Term 2: ACCT 111 or MATH 119 or higher, BA 121 or COMM 232, two electives, JUD 298 or 299

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 111	Business Math	
or MATH 119	Methods of Problem Solving (or higher)	3-4
BA 121	Business English	
or COMM 232	Business and Professional Communication Studies	3
COMM 221	Interpersonal Communication Studies	
or COMM 225	Small Group Communication Studies	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
ENG 101	College Writing	3
JUD 101	Introduction to Judicial Studies	3
JUD 102	Introduction to Court Operations and Ethics	1
JUD 298	Internship	
or JUD 299	Cooperative Education	4
	Approved Electives	9
	Subtotal	33-34

Students complete three credits from each of the following three categories:

Approved Legal Electives

BA 211	Business Law	
or LAS 102	Business Organizations	3
CJ 107	Criminal Procedure	
or LAS 206	Criminal Litigation	3
LAS 101	Introduction to Legal Assistant Studies	3
LAS 111	American Law and Ethics	3
LAS 124	Legal Research and Writing I	3
LAS 201	Contract Law	3
LAS 203	Civil Litigation	3
SOC 111	Criminal Justice System	3
SOC 212	Juvenile Delinquency	3

Approved Government and Cultural Electives

COMM 291	Intercultural Communication Studies	3
CST 250	Introduction to Native American Studies	3
CST 296	Topics in Cultural Studies	1-3
HIST 260	History of New Mexico	3
PSCI 200	U.S. Politics	3
PSCI 210	State and Local Politics	3
SPAN 101	Beginning Spanish I (or higher)	3-4

Approved Management Electives

AA 171	Working with the Challenging Customer (5 weeks)	1
ACCT 270	Governmental Accounting	3
BA 131	Business Interpersonal Skills (7.5 weeks)	2
BA 133	Principles of Management	3

BA 252	Customer Relations	3
LAS 236	Employment Law	3
PHIL 245B	Ethics	3
MATH 145	Introduction to Probability and Statistics	3
PSY 271	Social Psychology	3

LEGAL ASSISTANT STUDIES

Business Occupations Department

The Legal Assistant Studies program trains qualified men and women for entry into the legal profession. The program is approved by the American Bar Association (ABA). Legal assistants are skilled professionals who perform substantive legal tasks under the supervision of a licensed attorney. Responsibilities include interviewing and assisting clients and witnesses, investigation, data analysis, drafting legal documents and correspondence, research, litigation support and case management.

Employment opportunities include placement in law firms, corporate legal departments, legal aid offices, public agencies, insurance companies and other commercial firms.

Students are presented substantive and procedural law as well as legal skills. Studies cover the nature and philosophy of fundamental legal theory, the legal system and how that system relates to other disciplines, legal analytical skills, practice skills and the professional responsibilities of the legal assistant. The ethical issues inherent in the practice of the profession are stressed.

BA 150 is a prerequisite to CIS 120 and 123.

Information about this program is available from the director at 224-3845 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the associate of applied science degree program in Legal Assistant Studies includes:

Term 1: LAS 101, 102, 123, ENG 101

Term 2: CIS 120 or 123, LAS 111, 124, ENG 102, PSY 105

Term 3: LAS 201, LAS 203 or 206, 204, PHIL 156, MATH 119

Term 4: LAS 224, LAS 230 or 243, 231, COMM elective

Term 5: LAS 221, LAS 223 or 225 or 294, LAS 298 or 299, 3 credit elective course

DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CIS 120	WordPerfect for Windows [previously MMS 134]	
or CIS 123	Microsoft Word for Windows [previously MMS 135]	3
COMM	Elective	3
ENG 101	College Writing	3
ENG 102	Analytic and Argumentative Writing	3
LAS 101	Introduction to Legal Assistant Studies	3
LAS 102	Business Organizations	3
LAS 111	American Law and Ethics	3
LAS 123	Torts	3
LAS 124	Legal Research and Writing I	3
LAS 201	Contract Law	3
*LAS 203	Civil Litigation	
or *LAS 206	Criminal Litigation	3
LAS 204	Legal Research and Writing II	3
LAS 221	Wills, Probate and Estate Planning	3
LAS 223	Domestic Relations	
or LAS 225	Constitutional Law	
or LAS 294	Mediation	3
LAS 224	Evidence	3
*LAS 230	Civil Litigation II	
or *LAS 243	Criminal Litigation II	3
LAS 231	Computers in Law Practice	3

LAS 298	Internship	
or LAS 299	Cooperative Education	4
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	4
PHIL 156	Logic and Critical Thinking	3
PSY 105	Introduction to Psychology	3
	Approved Elective	3
	Total	68

*Course not chosen to fulfill requirement may be taken to fulfill the elective.

Approved Electives

ACCT 101	Accounting I	
or ACCT 101A and ACCT 101B		6
BA 270	Real Estate Law	3
CIS 110	DOS Fundamentals (5 weeks) [previously MMS 151]	1
CIS 126	Desktop Publishing Using Word (5 weeks) [previously MMS 154]	1
CIS 142	Presentation Graphics [previously MMS 257]	3
CIS 150	Excel Fundamentals (5 weeks) [previously MMS 158]	1
CIS 155	Access Fundamentals (5 weeks) [previously MMS 159]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CIS 210	Office Management Software (5 weeks) [previously MMS 156]	1
CR 132	Medical Terminology and Anatomy	3
CR 240	Legal Terminology	3
JUD 101	Introduction to Judicial Studies	3
JUD 102	Introduction to Court Operations and Ethics	1
LAS 223	Domestic Relations	3
LAS 225	Constitutional Law	3
LAS 232	Personal Injury Law	3
LAS 233	Law Office Management	3
LAS 234	Administrative Law	3
LAS 236	Employment Law	3
LAS 242	Native American Law	3
LAS 244	Social Security Law (5 weeks)	1
LAS 245	Bankruptcy Law (5 weeks)	1
LAS 294	Mediation	3
LAS 295	Public Defender	3
LAS 296	Topics Course	3
LAS 297	Special Problems	3

LIBERALARTS

Arts & Sciences Department

The associate of arts in liberal arts degree is designed to meet diverse educational interests. The degree provides the general curriculum of the first two years of baccalaureate study for transfer purposes or as an end in itself. This degree includes a general education curriculum of 35 credit hours accepted by New Mexico's colleges and universities as the general education core for degree completion.

Courses in disciplines not currently included in the Arts & Sciences curriculum and courses not offered by the Arts & Sciences Department may be accepted as transfer credit toward the degree requirements.

For information about transfer work, students should contact the Advisement Office.

Discipline	Course Course	Credit Hours
<i>Communications</i> (must include ENG 102 and one COMM course)		9
English	ENG (writing): 101, 102, 119, 212, 219, 220, 221, 222	
Journalism	JOUR	
Communication Studies	COMM 221 or 130	

<i>Computer Science</i>	CSCI	
Computer Science	CSCI101	3–4
<i>Social and Behavioral Sciences</i> (must include at least two disciplines)		9
Anthropology	ANTH	
Economics	ECON	
Geography	GEOG	
Political Science	PSCI	
Psychology	PSY	
Sociology	SOC	
<i>Biological and Physical Sciences</i> (must include one lab course)		7
Astronomy	ASTR	
Biology	BIO	
Chemistry	CHEM	
Physics	PHYS	
<i>Humanities</i> (must include at least two disciplines)		9
Cultural Studies	CST	
History	HIST	
Humanities	HUM	
Literature	ENG (literature)	
Philosophy	PHIL	
Religious Studies	RLGN	
<i>Mathematics</i> (one course numbered above MATH 120 except MATH 215)		3
<i>Fine Arts and Foreign Languages</i> (must include at least two disciplines; no more than three credit hours of applied or studio art)		9
Art	ART	
Music	MUS	
French	FREN	
Spanish	SPAN	
Theater	THEA	
<i>Electives</i> (any Arts & Sciences course, including General Honors; no more than one credit hour of physical education allowed)		13–14
Total		64

LICENSED PRACTICAL NURSE REFRESHER

Health Occupations Department

The LPN Refresher special courses meet the requirements of the State of New Mexico Nursing Practice Act 61-3-24.D. for nurses who have not been actually engaged in nursing for five years or more. It is approved by the New Mexico Board of Nursing. The curriculum focuses on updates in all major areas of nursing practice.

A physical exam, PPD, current immunizations and current CPR certification for healthcare professionals (BLS) are required to start clinical experience. White uniform and shoes and a stethoscope are required for clinical experience.

The \$20 course fee covers the cost of supplies and preventive lab tests in case of needle stick exposure. There are additional fees payable to the New Mexico State Board of Nursing for licensure endorsement and reinstatement if a nursing license has expired. The eight-week course is offered once a year in the summer term on the Main Campus and twice a year, spring and summer, via Distance Learning. Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4125.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
LPNR 155L	Refresher Theory/Lab	7
LPNR 165C	Refresher Clinical Experience	2
	Total	9

MACHINE TOOL TECHNOLOGY

Trades & Service Occupations Department

The Machine Tool Technology certificate program qualifies students for job entry as machine tool operators. Courses also may be applied toward a degree in Metals Technology.

All courses emphasize safe operations of various machine tools. Classes meet in well equipped labs where students are introduced to micrometers, gauges, drill presses, hand tools, engine lathes, milling machines, computer controlled machining centers and other equipment commonly used throughout the metal-working industry.

Students must be free of chronic respiratory diseases and allergies to oils, solvents and cutting fluids, must be able to stand on concrete floors for the length of a standard work shift and must have depth perception correctable in both eyes.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

A suggested schedule includes:

Term 1: MATT 101, 102, 103L, 104L, 105L, 108L

Term 2: MATT 111, 113, 117L, 120L, 121L, 122L

Term 3: MATT 202, 208L, 214, 216L, 217L, 218L

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
MATT 101	Metals Math I.....	2
MATT 102	Metals Blueprint Reading I.....	2
MATT 103L	Basic Lathe Principles.....	2
MATT 104L	Basic Milling Machine Principles.....	2
MATT 105L	Basic Supporting Machine Tool Principles.....	2
MATT 108L	Basic Measurement and Inspection.....	2
MATT 111	Metals Math II.....	2
MATT 113	Metals Blueprint Reading II.....	2
MATT 117L	Intermediate Lathe Principles.....	2
MATT 120L	Intermediate Milling Machine Principles.....	2
MATT 121L	Intermediate Supporting Machine Tool Principles.....	2
MATT 122L	Computer Numerical Control I.....	2
MATT 202	Metallurgy.....	2
MATT 208L	Advanced Lathe Principles.....	2
MATT 214	Machine Tool Technology CAD.....	2
MATT 216L	Advanced Milling Machine Principles.....	2
MATT 217L	Advanced Supporting Machine Tool Principles.....	2
MATT 218L	Computer Numerical Control II.....	2
	Total.....	36

Optional Courses

MATT 173	Machine Tool Technology Skills.....	3
MATT 174	Advanced Machine Tool Technology Skills.....	3

MANUFACTURED HOUSING SET-UP

Trades & Service Occupations Department

The Manufactured Housing Set-up certificate program is designed to meet the needs of TVI District employers as well as statewide employers.

The program is housed on TVI's Main Campus. Classes may meet at off-campus locations when announced by the instructor; students are required to provide their own transportation.

The program covers theory and/or lab in Manufactured Housing Division code, safety, set-up, electrical, plumbing, customer service, quality assurance, warranty service, appliance service and heating and cooling.

Students enrolled in this program may not be eligible for financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
MH 101	Manufactured Housing Customer Service	2
MH 102	Manufactured Housing Code and Safety	2
MH 103L	Manufactured Housing Electrical	1
MH 104	Manufactured Housing Plumbing	2
MH 105	Manufactured Housing Set-up	3
MH 106	Manufactured Housing Appliance Service	2
	Total	12

MANUFACTURING TECHNOLOGY

Technologies Department

The Manufacturing Technology program, offering both certificate and associate degree options, provides students with a broad base of skills in analog and digital electronics along with a good communication and science background. The program offers concentrations in Semiconductor Manufacturing, Facilities Maintenance and General Manufacturing, one of which a student must complete along with core courses for an associate degree. To receive a certificate in Manufacturing Technology with a Semiconductor concentration, the student must complete all defined courses.

Training is provided in the fundamental concepts of electronics and mechanical components. Circuits, which have application in the semiconductor, digital equipment manufacturing, measurement and control, are covered.

Laboratory facilities containing modern equipment for testing, troubleshooting, calibrating, analyzing and designing electronic systems and for processing wafers are used in the Semiconductor concentration. Such systems include computers, electronic instruments, and wafer processing equipment and electromechanical equipment. Other laboratory facilities provide the ability to analyze and test various materials and components.

Students are encouraged to join the TVI chapter of the Society of Manufacturing Engineers (SME). Students entering Manufacturing Technology courses must meet the prerequisites of Math 100B or equivalent on placement test, reading at an eighth-grade level and CP 176 or equivalent. A student can receive a **Manufacturing Skills Verification of Completion** upon completion of CP 176 and MT 105.

Entry into a course without the prerequisite may be allowed with the permission of the program director. Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at (505) 224-3340.

CERTIFICATE AND DEGREE CORE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ELEC 103A	Electronics Fundamentals A	4
	and ELEC 103B Electronics Fundamentals B	4
	or ELEC 103L Electronics Fundamentals	8
ELEC 104	Electronics Mathematics	5
ENG 101	College Writing	3
MT 105	Manufacturing Concepts	4
MT 205	Applied Science	6
MT 281	Statistical Controls	3
COMM 221 or COMM 223 or COMM 225 or COMM 232	.....	3
	Total for Certificate	32

DEGREE REQUIREMENTS – Choose One of the Following Concentrations:

Facilities Maintenance Self-Selected Concentration

	<i>Credits transferable from the Certificate</i>	32
ELEC 105L	Digital Circuits	4
ELEC 118L	Electromechanical Devices	6
PC 212L	Vacuum Systems	2
ACHR 133	Refrigerant Management	2
ACHR 134	Motors and Controls	2

ACHR 151	Air Conditioning	2
ACHR 152	Air Conditioning Control	2
ACHR 214	Chilled Water Systems	2
ELTR 212	Programmable Logic Controller	4
ELTR 213L	PLC Installation and Operation	3
PLMB 102	Plumbing Systems Theory	1
PLMB 102L	Plumbing Systems Lab	2
ENG 119	Technical Communications	3
MATH 121 or MATH 145 or MATH 150 or MATH 162 or MATH 180	.....	3
	Humanities or Social Science Elective	3
	Facilities Maintenance Technical Electives	4
	Total for Degree	77
<i>Facilities Maintenance Technical Electives</i>		
ACHR 212	Hot Water and Steam Generation	2
ACHR 213	Controls I	2
ACHR 215	Controls II	2
CM 278	Mechanical/Electrical Blueprint Reading	2
PLMB 105	Plumbing Blueprint Reading	1
PLMB 106L	Back-flow Prevention	2
PLMB 173L	Orbital Welding Systems	3
<i>Semiconductor Manufacturing Self-Selected Concentration</i>		
	<i>Credits transferable from the Certificate</i>	<i>32</i>
ELEC 105L	Digital Circuits	4
ELEC 114L	Semiconductor Devices	6
ELEC 118L	Electromechanical Devices	6
PC 201	Electromechanical Systems	3
PC 211	Power RF	2
PC 212L	Vacuum Systems	2
SMT 201/201L	Semiconductor Manufacturing Technology I Theory/Lab	3
SMT 211/211L	Semiconductor Manufacturing Technology II Theory/Lab	3
ENG 119	Technical Communications	3
CHEM 121/121L	General Chemistry I	4
MATH 121 or MATH 145 or MATH 150 or MATH 162 or MATH 180	.....	3
	Humanities or Social Science Elective	3
	Semiconductor Manufacturing Technical Elective	3
	Total for Degree	74
<i>Semiconductor Manufacturing Technical Electives</i>		
CP 278A	C++ Language Programming I	3
ELEC 111L	Introduction to Photonics	4
ELEC 203L	Introduction to Microprocessors	6
ELEC 205L	Analog Circuits	6
ELEC 214L	Troubleshooting Techniques	3
ELEC 217	Upgrading and Repairing PC's	3
ELEC 276L	Soldering Techniques (7.5 weeks)	2
ELEC 277L	Advanced Soldering Techniques (7.5 weeks)	2
ELEC 296	Topics	1-8
ELEC 297	Special Problems	2-8
ELEC 298	Internship	3
ELEC 299	Cooperative Education	3
MATT 102	Metals Blueprint Reading I	2
MATT 105L	Basic Supporting Machine Tools Principles	2
MT 280	Introduction to Quality Assurance	3

General Manufacturing Self-Selected Concentration

<i>Credits transferable from the Certificate</i>	32
DDET 106L Basic CADD	3
ELEC 105L Digital Circuits	4
ELEC 118L Electromechanical Devices	6
PC 203 PLC Theory and Applications (7.5 weeks)	2
PC 212L Vacuum Systems	2
MATT 102 Metals Blueprint Reading I	2
MATT 103L Basic Lathe Principles	2
MATT 104L Basic Milling Machine Principles	2
MATT 117L Intermediate Lathe Principles	2
MATT 120L Intermediate Milling Machine Principles	2
MATT 122L Computer Numerical Control I	2
MATT 218L Computer Numerical Control II	2
WELD 106L Introduction to SMAW	2
ENG 119 Technical Communications	3
MATH 121 or MATH 145 or MATH 150 or MATH 162 or MATH 180	3
Humanities or Social Science Elective	3
Total for Degree	74

MECHANICAL TECHNOLOGY

Trades & Service Occupations Department

The Mechanical Technology associate of applied science degree is available with two concentrations: air conditioning and plumbing. Cross training in both programs is provided.

All courses must be passed with a minimum grade of C to qualify for graduation.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

AIR CONDITIONING, HEATING AND REFRIGERATION CONCENTRATION

A suggested schedule per term includes:

Term 1: ACHR 131, 132, 133, 134, 135, 136, 137, EPT 214A, 214B, 214C, MATH 119 or higher

Term 2: ACHR 151, 152, 153, 154, 155, 156, BA 105 or CP 175L or CSCI 101, ENG 101

Term 3: ACHR 210, 211, 212, 213, 214, 215, 216, COMM elective, humanities/social or behavioral science elective

Term 4: PLMB 101, 101L, 102, 102L, 105, 106L, PHYS 102 or higher

<u>Course No.</u>	<u>Course Name</u>	<u>Credit Hours</u>
ACHR 131	Refrigeration Fundamentals	2
ACHR 132	Basic Electricity	2
ACHR 133	Refrigerant Management	2
ACHR 134	Motors and Controls	2
ACHR 135	Refrigeration Applications	2
ACHR 136	Control Circuit Application	2
ACHR 137	Code and Safety Requirements I	1
ACHR 151	Air Conditioning	2
ACHR 152	Air Conditioning Controls	2
ACHR 153	Gas Heating Systems	2
ACHR 154	Gas Heating Electrical Systems	2
ACHR 155	Commercial Refrigeration	2
ACHR 156	System Design	3
ACHR 210	Pumps and Valves	2
ACHR 211	Basic Hydronic Principles	2
ACHR 212	Hot Water and Steam Generation Systems	2
ACHR 213	Controls I	2

ACHR 214	Chilled Water Systems	2
ACHR 215	Controls II	2
ACHR 216	Code and Safety Requirements II	1

Additional Required Trades & Service Occupations Courses

EPT 214A	Occupational Safety I.....	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
PLMB 101	Basic Plumbing Theory	1
PLMB 101L	Basic Plumbing Lab	2
PLMB 102	Plumbing Systems Theory	1
PLMB 102L	Plumbing Systems Lab	2
PLMB 105	Plumbing Blueprint Reading I	1
PLMB 106L	Backflow Prevention	2

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Science Courses

	Communications Elective (oral communications course)	3
ENG 101	College Writing	3
	Humanities/Social or Behavioral Science Elective	3
MATH 119 or higher	.....	3-4
PHYS	102 or higher	3
Total	.....	70-71

PLUMBING CONCENTRATION

A suggested schedule per term includes:

Term 1: PLMB 101, 101L, 102, 102L, 103, 103L, 105, 106L, EPT 214A, 214B, 214C, MATH 119 or higher

Term 2: PLMB 111, 111L, 112L, 115, 116L, 173L, WELD 170, ENG 101

Term 3: ACHR 131, 132, 133, 134, 135, 136, BA 150 or CP 176 or CSCI 101, COMM elective

Term 4: ACHR 151, 152, 153, 154, humanities/social or behavioral science elective, PHYS 102 or higher

Course No.	Course Name	Credit Hours
PLMB 101	Basic Plumbing Theory	1
PLMB 101L	Basic Plumbing Lab	2
PLMB 102	Plumbing Systems Theory	1
PLMB 102L	Plumbing Systems Lab	2
PLMB 103	Heating Control Circuitry Theory	1
PLMB 103L	Heating Control Circuitry Lab	2
PLMB 105	Plumbing Blueprint Reading I	1
PLMB 106L	Backflow Prevention	2
PLMB 111	Systems Layout/Maintenance Theory	1
PLMB 111L	Systems Layout Lab	2
PLMB 112L	Systems Maintenance Lab	2
PLMB 115	Plumbing Blueprint Reading II	2
PLMB 116L	Building Maintenance, Heating and Cooling	1
PLMB 173L	Orbital Automated Welding Systems	3
ACHR 131	Refrigeration Fundamentals	2
ACHR 132	Basic Electricity	2
ACHR 133	Refrigerant Management	2
ACHR 134	Motors and Controls	2
ACHR 135	Refrigeration Applications	2
ACHR 136	Control Circuit Application	2

ACHR 151	Air Conditioning	2
ACHR 152	Air Conditioning Controls.	2
ACHR 153	Gas Heating Systems	2
ACHR 154	Gas Heating Electrical Systems	2

Other Required Trades & Service Occupations Courses

EPT 214A	Occupational Safety I.....	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
WELD 170	Welding Skills Improvement.....	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

Communications Elective (oral communications course).....	3	
ENG 101	College Writing	3
Humanities/Social or Behavioral Science Elective	3	
MATH 119 or higher	3-4	
PHYS 102 or higher	3	
Total.....	68-69	

MEDICAL LABORATORY TECHNICIAN

Health Occupations Department

The Medical Laboratory Technician associate of science degree program prepares students to perform laboratory procedures, which aid the physician and pathologist in the diagnosis and treatment of disease. Medical laboratory technicians (MLTs) work in clinics, hospitals, private laboratories and physician office labs, collecting blood specimens and performing test procedures in such disciplines as clinical chemistry, hematology, immunohematology, immunology, microbiology and urinalysis.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Graduates are eligible to take both the American Society of Clinical Pathologists and the National Credentialing Agency exams to obtain Certified Medical Laboratory Technician credentials.

The clinical practicum experience at affiliated hospitals and laboratories provides experience in performing laboratory tests under the direction of a clinical instructor. Students must arrange for their own transportation to the hospitals or labs.

An agreement with the University of New Mexico Medical Laboratory Science (MLS) Department allows for the transfer of some or all credits earned at TVI toward the UNM MLS bachelor’s degree. Students should contact the program director for specifics.

There is a uniform fee for MLT 110L or MLT 296/296A of \$31 for one lab coat. There is a uniform fee of \$7.50 for MLT 151C for a name tag, hospital parking permits and preventive lab tests in case of needle stick exposure. Each MLT laboratory course also has a \$20 supply fee.

Program information sessions for the Medical Laboratory Technician program are scheduled regularly; students should contact the Health Occupations Department for dates and times. These sessions include detailed information about the petitioning and selection process, program requirements, physical demands of the job and general information about laboratory medicine as a career. Anyone interested in the Medical Laboratory Technician program is strongly encouraged to attend one of these program information sessions. For more information on these sessions applicants may call 224-4161.

Prospective MLT students must declare MLT as their major, complete the prerequisites and submit a petition packet to the Health Occupations Department to be considered for the MLT classes beginning in the fall term. Students should call the Health Occupations office at 224-4111 to learn the dates of the summer petition period. Students are responsible for meeting the eligibility requirements. Once all requirements are fulfilled, students must petition for enrollment in the core MLT curriculum. The program begins in the fall term of each year.

Students petitioning for enrollment must:

- submit a completed TVI application declaring MLT as your major.
- request that transcripts from *all* postsecondary schools previously attended be sent to TVI's Record Office. (allow three-four weeks)
- have a cumulative GPA of 2.0 or higher

Prerequisites are:

- high school diploma or equivalent
- English, math, reading and science at 100 level (MATH 100A prerequisite may be fulfilled by ACT, SAT or Accuplacer score or college coursework)

Job placement for MLT graduates was 100% in 1997, 1998, and 1999

There are two pathways available for students to enter the program in the fall term.

PATHWAY 1 is for students who need to complete some or all of the required Arts & Sciences courses. The following order of courses is recommended:

Fall Term: ENG 101, MATH 119, CHEM 111/112L, BIO 123/124L, MLT 110L

Spring Term: MATH 145, CHEM 212, BIO 136/139L, MLT 151C

Summer Term: BIO 239/239L, HUM/SS elective

Fall Term: MLT 201L, MLT 114/114C (7.5 weeks), MLT 204L (7.5 weeks)

Spring Term: MLT 203L, MLT 206/206C

Summer Term: MLT 205C

Arts & Sciences courses may be taken in this order or ahead of schedule.

PATHWAY 2 is for students who have all Arts & Sciences courses completed prior to the fall term with the exception of the Humanities/Social Science elective which may be taken the last term. Students currently enrolled in the remaining Arts & Sciences courses during the summer term may still petition for the fall term if they submit proof of enrollment in the courses. The following order of courses is recommended:

Fall Term: MLT 110L, 201L, 114/114C (7.5 weeks), 204L (7.5 weeks)

Spring Term: MLT 151C, 203L, 206/206C

Summer Term: MLT 205C, Hum/SS elective

Advanced Placement: Applicants seeking advanced placement to the Medical Laboratory Technician program should contact the program director for more information.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-5021.

REQUIRED ARTS & SCIENCES COURSES

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BIO 123/124L	Biology for Health Sciences/Lab(BIO 121/121L ¹)	4
ENG 101	College Writing (ENG 102) ¹	3
CHEM 111/112L	Introduction to Chemistry/Lab (CHEM 121/121L ¹)	4
CHEM 212 ¹	Organic Chemistry & Biochemistry	4
BIO136/139L	Human Anatomy and Physiology for Non-Majors/Lab (BIO 237/247L <i>and</i> BIO 238/248L ¹)	4
BIO 239/239L	Microbiology/Lab	4
MATH 145	Intro to Probability & Statistics	3
	Humanities/Social Science Elective ¹	3

Required Medical Laboratory Technician Courses

MLT 110L	Introduction to Medical Technology (<i>CLA 101L may be substituted</i>)	3
MLT 114	Immunology	1
MLT 114C	Clinical Immunology	1
MLT 151C	Clinical Experience Urinalysis/Phlebotomy	3
MLT 201L	Clinical Chemistry	7
MLT 203L	Clinical Hematology/Coagulation	6
MLT 204L	Clinical Immunoematology	3
MLT 205C	Clinical Experience	12
MLT 206	MLT Microbiology	3
MLT 206C	Clinical MLT Microbiology	3
	Total	71

¹These courses may be substituted for the required course.

METALS TECHNOLOGY

Trades & Service Occupations Department

The Metals Technology associate of applied science degree is available with two concentrations: Machine Tool Technology and Welding.

The program prepares individuals for entry-level positions in the metal working industry. The program also provides the opportunity to transfer to a four-year program. Personal safety is stressed.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

MACHINE TOOL TECHNOLOGY CONCENTRATION

A suggested schedule per term includes:

Term 1: MATT 101, 102, 103L, 104L, 105L, 108L, MATH 119 or higher, BA 105 or CP 176 or CSCI 101

Term 2: MATT 111, 113, 117L, 120L, 121L, 122L, ENG 101, COMM 130 or higher

Term 3: MATT 202, 208L, 214, 216L, 217L, WELD 170, ENG 102 or higher

Term 4: MATT 171, 218L, Business Occupations or Technologies elective, PHYS 102 or higher, humanities social or behavioral science elective

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
MATT 101	Metals Math I	2
MATT 102	Metals Blueprint Reading I	2
MATT 103L	Basic Lathe Principles	2
MATT 104L	Basic Milling Machine Principles	2
MATT 105L	Basic Supporting Machine Tool Principles	2
MATT 108L	Basic Measurement and Inspection	2
MATT 111	Metals Math II	2
MATT 113	Metals Blueprint Reading II	2
MATT 117L	Intermediate Lathe Principles	2
MATT 120L	Intermediate Milling Machine Principles	2
MATT 121L	Intermediate Supporting Machine Tool Principles	2
MATT 122L	Computer Numerical Control I	2
MATT 202	Metallurgy	2
MATT 208L	Advanced Lathe Principles	2
MATT 214	Machine Tool Technology CADD	2
MATT 216L	Advanced Milling Machine Principles	2
MATT 217L	Advanced Supporting Machine Tool Principles	2
MATT 218L	Computer Numerical Control II	2
WELD 170	Welding Skills	3
WELD 171	Advanced Welding Skills	3
	Business Occupations and/or Technologies Elective	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	3
ENG 101 College Writing	3
ENG 102 or higher	3
Humanities/Social or Behavioral Science Elective	3
MATH 119 or higher	3-4
PHYS 102 or higher	3
Total	67-68

WELDING CONCENTRATION

A suggested schedule per term includes:

Term 1: MATT 101, 102, WELD 104L, 105L, 106L, 107L, 108, MATH 119 or higher

Term 2: MATT 111, 113, WELD 114L, 115L, 116L, 117L, ENG 101, BA 150 or CP 176 or CSCI 101

Term 3: MATT 173, WELD 202, 205L, 206L, 207L, 208L, COMM 130 or higher

Term 4: MATT 174, Business Occupations or Technologies elective, PHYS 102 or higher, humanities/social or behavioral science elective

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
MATT 101	Metals Math I	2
MATT 102	Metals Blueprint Reading I	2
WELD 104L	Oxyacetylene Welding and Cutting	2
WELD 105L	Oxyacetylene Brazing/Soldering and Fabrication	2
WELD 106L	Introduction to SMAW	2
WELD 107L	Introduction to SMAW Qualifications and Fabrication	2
WELD 108	Introduction to Metallurgy	2
MATT 111	Metals Math II	2
MATT 113	Metals Blueprint Reading	2
WELD 114L	Advanced SMAW	2
WELD 115L	Introduction to GMAW and Fabrication	2
WELD 116L	Introduction to GTAW and Fabrication	2
WELD 117L	Qualifications for SMAW and GMAW	2
WELD 202	Advanced Blueprint Reading	2
WELD 205L	Pipe Layout and Welding	2
WELD 206L	Advanced GMAW and Fabrication	2
WELD 207L	Advanced GTAW and Fabrication	2
WELD 208L	Qualifications for GTAW	2
MATT 173	Machine Tool Technology Skills	3
MATT 174	Advanced Machine Tool Technology Skills	3
	Business Occupations and/or Technologies Elective	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	3
ENG 101 College Writing	3
Humanities/Social or Behavioral Science Elective	3
MATH 119 or higher	3-4
PHYS 102 or higher	3
Total	64-65

NETWORKING TECHNOLOGY

Technologies Department

In this program students acquire the skills to administer and support computer systems and networks. Students have the choice of two concentrations: Network Systems Management and Network Technical Support. Graduates are prepared for entry-level jobs in government, business and industry. The Network Systems Management concentration is designed for a person who is responsible for the day-to-day operation of a network. Network or systems administrators typically perform tasks such as system installation, configuration and maintenance; administering user accounts; backing up servers; loading applications; and maintaining security. The Network Technical Support concentration is designed for a person who is responsible for minor network troubleshooting and network performance; students will attain skills to diagnose, troubleshoot and resolve network problems in a real-time

environment. Early courses emphasize written and verbal communications, business knowledge and basic computer skills.

To enter the Networking Technology program, the student must meet the prerequisites of MATH 100 or equivalent, RDG 99 or equivalent and CP 176 or equivalent.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3340.

COREREQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CP 182	Networking Topologies/NOS Environments	3
CP 183	Overview of Network Operating System Environments	3
CP 213	Database Concepts	3
CP 218	Introduction to Client/Server Technology	3
CP 274L	Introduction to UNIX and WANs	3
CP 285	Troubleshooting Networks	3
ACCT 103	Survey of Accounting for non-Business Majors	3
ELEC 217	Upgrading and Repairing PCs	3
ENG 101	College Writing	3
ENG 119	Technical Communications	
	or Communications (COMM) Elective	3
Subtotal		30

NETWORKSYSTEMSMANAGEMENTCONCENTRATION

Certificate and Degree Requirements

CP 105	Fundamentals of Computer Programming	6
CP 278A	C++ Language Programming I	3
ELEC 105L	Digital Circuits	4
Total Credits for Certificate		43

Additional Associate of Applied Science Degree Requirements

CP 275	Advanced UNIX and WAN Administration	3
MATH 121	College Algebra	3
or MATH 150	Advanced Algebra	4
MATH 145	Introduction to Probability and Statistics	3
	Social and Behavioral Sciences or Humanities Elective	3

Additional 15 Credits Selected from Courses Below:

CP 101L	ANSI COBOL	6
CP 220	Advanced Database Concepts	3
CP 241	Local Area Network (LAN) Systems Manager [Previously MMS 258]	3
CP 242	LAN Management [Previously MMS 262]	3
CP 243	Advanced LAN Management [Previously MMS 263]	3
CP 278B	C++ Language Programming II	3
CP 281L	Object-Oriented C++ Programming	3
CP 286	Windows NT Server [Previously MMS 264]	3
CP 296	Topics	1-6
CP 297	Special Problems	1-6
CP 298	Internship	3
CP 299	Cooperative Education	3
Total Credits for Degree		70-71

NETWORKTECHNICALSUPPORTCONCENTRATION

Certificate and Degree Requirements

CP 241	Local Area Network (LAN) Systems Manager [Previously MMS 258]	3
CP 242	LAN Management [Previously MMS 262]	3
CP 243	Advanced LAN Management [Previously MMS 263]	3
CP 286	Windows NT Server [Previously MMS 264]	3

BA 113	Introduction to Business	3
BA 133	Principles of Management	3
	Total Credits for Certificate	48

Additional Associate of Applied Science Degree Requirements

MATH 120	Intermediate Algebra	4
PHIL 245B	Business Ethics	3
or PHIL 245T	Ethics of Technology	3
	Social and Behavioral Sciences or Humanities Elective.....	3

Additional 15 Credits Selected from Courses Below

CP 103	Mathematics for Computer Programmers	4
CP 105	Fundamentals of Computer Programming	6
CP 220	Advanced Database Concepts	3
CP 275	Advanced UNIX and WAN Administration	3
CP 278A	C++ Language Programming I	3
CP 278B	C++ Language Programming II	3
CP 281L	Object-Oriented C++ Programming	3
CP 296	Topics	1-6
CP 297	Special Problems	1-6
CP 298	Internship	3
CP 299	Cooperative Education	3
BA 121	Business English	3
CIS 160	Introduction to Internet (5 weeks).....	1
CIS 135	Windows NT Workstation (5 weeks)	1
	Total Credits for Degree	73

NURSING HOME/HOME HEALTH ATTENDANT

Health Occupations Department

This 150-hour, seven-week special course is designed to teach basic nursing skills to individuals who wish to work or are working in a nursing home as a nursing aide or in patients' homes as a home health attendant. Graduates are eligible to take the state certification exam to become certified nursing assistants (CNA).

The five-week theory portion includes basic nursing skills, geriatrics, simple anatomy and physiology, rehabilitation, residents' rights and housekeeping chores. Lab experiences focus on personal care, vital signs and mobility skills. The two-week clinical portion applies these skills in a clinical setting.

The \$22 uniform fee covers the cost of required apron, name tag, health test, transfer belt, CPR and first aid certification, and preventive lab tests in case of needle stick exposure.

Twenty-four persons are enrolled in each course on a first come, first served basis. Courses are offered twice every term. Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4121.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
NAHA 102L	Nursing Home/Home Health Attendant Theory/Lab	5
NAHA 102C	Nursing Home/Home Health Attendant Clinical	1
	Total	6

NURSING PROGRAMS

Health Occupations Department

There are two programs available: associate degree nursing (leading to eligibility for licensure as a Registered Nurse) and practical nursing (leading to eligibility for licensure as an Licensed Practical Nurse). Advanced placement is available. Both programs are approved by the New Mexico State Board of Nursing and accredited by the National League for Nursing Accreditation Commission (NLNAC). For further information on accreditation for

Programs of Study

either program, the NLNAC may be contacted at (212) 989-9393, extension 153 or 350 Hudson Street, New York, New York 10014.

Licensure: It is essential that prospective students be informed that the New Mexico State Board of Nursing (NMSBON) may deny, revoke or suspend any license held or applied for under the Nursing Practice Act, upon grounds that the licensee or applicant violates any of the following actions (from NMAC 16, 12. 1, 2, 3, 4, 5; 61-3-28):

1. is guilty of fraud or deceit in procuring or attempting to procure a license or certificate of registration;
2. is unfit or incompetent;
3. is convicted of a felony;
4. is habitually intemperate or is addicted to the use of habit-forming drugs;
5. is mentally incompetent;
6. is guilty of unprofessional conduct; or
7. has willfully or repeatedly violated any provisions of the Nursing Practice Act;
8. was licensed to practice nursing in any jurisdiction, territory or possession of the United States or another country and was the subject of disciplinary action similar to acts described in this subsection.

Information sessions: Information sessions are scheduled regularly for each program. For dates and times applicants may call the Health Occupations Department information line at 224-4161. These sessions review levels of nursing, the petition process for enrollment, program requirements and curriculum changes. Individuals interested in either nursing program must attend one of these sessions and continuing students are encouraged to attend at least one session a year. Students may declare their major in practical nursing or associate degree nursing at any time. However, when ready to enter clinical courses, students must petition for selection.

Petitioning: Petitions for selection to the clinical courses are accepted early in the spring term for the practical nurse program and early in the summer and fall terms for the associate degree nursing program. Applicants may contact the Health Occupations Department for the dates and times when petitions are accepted. To be eligible to petition a student must complete the prerequisites (see below) and provide proof of completing all required liberal arts courses with a C or better. Anatomy, physiology and microbiology courses must be taken within five years from the date of application to the nursing program. Note: Anatomy and physiology courses have general biology (BIO 123/124L) and chemistry (CHEM 111/112L) prerequisites. These prerequisites may be met by appropriate high school courses. Permission to enroll is provided by the biology faculty.

Once all criteria are fulfilled students must petition for enrollment in the first clinical course in either nursing program. Should there be more petitioners than available spaces, the date of admission to TVI will be used as the final selection criterion. Should there be more than one person with the same date of admission competing for the same slot, the date of completion of all required liberal arts courses will be used as the final selection criterion. The date of completion will be the last day of the term in which the course was successfully completed.

Because of the high demand for these programs it may take more than one year after petitioning to begin the nursing core coursework.

Requirements for entering clinical courses: After selection into the first clinical course, students must submit:

- Completed physical examination and health forms with evidence of current immunizations before beginning clinical courses. It is strongly advisable that students be able to lift 50 pounds or more.
- Evidence of current certification in cardiopulmonary resuscitation (CPR) for health professionals before beginning clinical courses. CPR certification must be kept current throughout the program.

Students must arrange for their own transportation to attend all classes, observations and clinical experiences as scheduled. There may be some required evening clinical hours as well as daytime hours.

There is an equipment fee which includes the required uniforms, stethoscope, scissors, hospital parking permits, transfer belts, safety goggles, pen light, hemostat, identification tags and preventive lab tests in case of needle stick exposure and standardized testing. Students are responsible for the expenses of the physical examination, a watch with a second hand, uniform shoes, graduation pin, textbooks and licensing exam fees. In addition, most courses have fees for standardized testing.

Graduation requirements: A minimum grade of C must be earned in all required courses to continue in either nursing program and to graduate. In addition, competency in dosage calculations, as tested by clinical calculation exams, must be maintained for progress in the program.

Prerequisites: P.N. and A.D.N. (must be completed in order to petition):

- high school graduate or equivalent
- minimum score of 85% on Nursing/MLT Basic Math test within 12 months prior to petitioning.
- cumulative TVI GPA 2.0 or higher

Note: Students with concerns about disabilities that may interfere with their ability to complete either nursing program are encouraged to discuss these concerns with the director of the nursing programs before they begin courses.

Information about the nursing programs is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-4141.

PRACTICAL NURSING

This certificate program prepares practical nurses to care for patients in a variety of health care facilities under the supervision of registered nurses and physicians. Graduates are eligible to take the licensing examination for practical nurses administered by the NMSBN. Following licensure, LPNs may find employment in long-term care facilities, hospitals, physicians' offices and other health care agencies. Petitioning and prerequisites are covered above. The program begins in the summer term.

The Presbyterian Healthcare Services (PHS) School of Practical Nursing was started in 1956 at Presbyterian Hospital. In 1965 TVI assumed administrative responsibility for the school. Presbyterian continues to support the school by providing clinical facilities for patient care experiences.

Advanced Placement: There are two ways in which advanced standing can be given to Practical Nurse applicants: credit granted for equivalent coursework and/or successful completion of a challenge exam. For additional information applicants may contact the director of the nursing programs at 224-4141. Official transcripts for previous vocational/college course work must be submitted to the TVI Records Office. Nursing courses are only valid for three years from the date of application to TVI. Advanced placement by challenge exam is offered to students who have either completed a formal course of study in a nursing-related field within a postsecondary institution (e.g. military corps member) or performed basic nursing skills during employment in an in-patient setting within the last three years.

There is an equipment fee which includes the required uniforms, stethoscope, scissors, hospital parking permits, transfer belts, safety goggles, pen light, hemostat, identification tags and preventive lab tests in case of needle stick exposure and standardized testing.

REQUIRED ARTS & SCIENCES COURSES

Course No.	Course Name	Credit Hours
BIO 237/247L	Human Anatomy and Physiology I/Lab	4
BIO 238/248L	Human Anatomy and Physiology II/Lab	4
ENG 101	College Writing	3
¹ NUTR 244	Human Nutrition	3
² PSY 105	General Psychology	3

REQUIRED PRACTICAL NURSE COURSES

NURS 115	Dosage Calculations	1
PN 126C	Foundations of Practical Nursing	9
PN 127C	Family Nursing	8
³ PN 131	Pharmacology	3
PN 128C	Nursing of the Family with Complex Problems	13
PN 129	Trends and Issues in Practical Nursing	1
Total		52

¹NUTR 125 may be substituted.

²PSY 220 may be substituted.

³NURS 231 may be substituted.

NURSING

The associate degree nursing (ADN) program prepares technical nurses to provide nursing care to individuals or groups admitted to health care agencies. The clients have common, well defined health problems. Graduates work in structured healthcare settings where they provide and manage client care, teach and promote communication while participating as members of the nursing profession. Requirements and prerequisites are covered above. Graduates are eligible to take the licensing exam given by the New Mexico State Board of Nursing to become registered nurses. The program begins in the fall and spring terms.

Advanced Placement: To apply for advanced standing in the associate degree nursing program, individuals must meet the enrollment requirements for the program as described above. Official transcripts of all vocational/college courses must be sent to TVI. All advanced placement students must take NURS 202C prior to enrollment in the Nursing courses. Advanced placement may be granted in three ways:

Challenge Exam: for students who meet one of the following criteria: completion of a formal course of study in a nursing-related field within a postsecondary institution (e.g. military corps member) or performance of basic nursing skills during employment in an in-patient setting within the last three years. Individuals interested in

challenge must make an appointment with the director of the nursing program. The process includes theory and practical exams. Students should check with the department for courses available for challenge. There is a fee for each challenge exam.

Transfer: from an approved associate degree or baccalaureate nursing program with equivalent courses. To apply for transfer, the individual must submit evidence of completion of equivalent courses with minimum grades of C. Nursing courses are only valid for three years from the date of application. For specific information, students should contact the director of the nursing programs.

LPN Mobility: The associate degree program is designed to enroll qualified licensed practical nurses into the third term who meet the following requirements:

- meet all enrollment criteria for the ADN program including official transcripts of previous education in a vocational school or college
- provide proof of current licensure as an LPN.
- pass the Nursing Mobility Profile I examinations as indicated by the program; and
- provide proof of completion of all required liberal arts courses with a minimum grade of C (anatomy and physiology and microbiology courses must be taken within five years from the date of application to the nursing program). Students must also have completed NURS 115 and NURS 202C . Priority is given to those who have also completed NURS 231.

Students are responsible for meeting the prerequisites and notifying the nursing director of their readiness to enter advanced placement four months prior to the term when they want to enter. Students are notified by mail when they are selected to enter the clinical courses. After selection, students must meet the same requirements for entering clinical courses described above.

Students pay equipment fees for hospital parking permits, name tags, achievement tests and preventive lab tests in case of needle stick exposure upon enrollment into nursing courses (fees are attached to specific courses). Students also are responsible for the expenses of physical exams, uniforms, transfer belts, shoes, watch with a second hand, safety goggles, stethoscope, bandage scissors, graduation pin and licensing fees.

REQUIRED ARTS & SCIENCES COURSES

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BIO237/247L	Anatomy and Physiology I/Lab	4
BIO 238/248L	Anatomy and Physiology II/Lab	4
BIO 239/239L	Microbiology for Health Sciences/Lab	4
ENG 101	College Writing	3
¹ NUTR 244	Human Nutrition	3
PHIL 245M	Biomedical Ethics	3
PSY 105	General Psychology	3
PSY 220	Developmental Psychology	3
	² Elective	3

REQUIRED NURSING COURSES

NURS 115	Dosage Calculations	1
NURS 126C	Foundations of Nursing	9
NURS 127C	Family Nursing I	9
NURS 226C	Family Nursing II	10
NURS 227	Manager of Care	1
NURS 231	Pharmacology in Nursing	3
NURS 247C	Complex Health Problems in the Family	9
	Total	72

¹NUTR 125 may be substituted.

²May be outside of Arts & Sciences with department approval; may not be a lab/science course

NURSING ASSISTANT

Health Occupations Department

This certificate program provides training in basic nursing skills required for the care and comfort of the sick in hospitals, out-patient clinics, nursing homes, public health agencies, private medical offices and the home. Graduates are eligible to take the state certification exam. The program begins in the fall and spring terms.

Good communication skills and the desire as well as the ability to care for others are necessary for this program. Students must have a New Mexico driver's license and a car because students will visit patients' homes (city buses are not adequate.) The student will be required to have a physical exam, PPD and current immunizations (including tetanus, rubella and rubeola, and hepatitis B) to go to clinical.

The 15-week program includes 360 instructional hours. Nine weeks are spent in the classroom and laboratory, followed by six weeks of extensive supervised clinical experiences. A student attends class an average of 24 hours per week throughout the program.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

A \$35 uniform fee covers the cost of the required apron, name tag, stethoscope, health test, CNA pin, hospital parking permits, CPR and first aid certification, a transfer belt and preventive lab tests in case of needle stick exposure. A watch with a second hand, uniform slacks, shirt and shoes are required but not covered by the fee.

Prerequisites are:

- MATH 099 or equivalent
- RDG 099 or equivalent
- ENG 099 or equivalent

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
NA 101	Nursing Assistant Theory	4
NA 110L	Nursing Assistant Lab	1
NA 121C	Nursing Assistant Clinical Experiences	3
NA 131	Health Communications	3
NA 161	Nursing Assistant Issues	2
NA 171	Nursing Assistant-Applications	3
	Total.....	16

PERIOPERATIVE NURSE SPECIALIST

Health Occupations Department

These special courses provide RNs and LPNs with the skills and knowledge to work in hospital operating rooms or free-standing day surgical units. Twelve-week courses are offered in the summer term.

The curriculum offers an introduction to the history, scope and role of the perioperative nurse; the concept of team management and collaboration; the surgical environment, including principles of asepsis, sterilization and safety; use and care of basic instruments and equipment; standards of practice and legal, moral and ethical issues; the nursing process; continuity of care; surgical pharmacological agents; wound healing; and management skills. Students have an opportunity to apply theory to practice in hospital operating rooms.

Written permission of the instructor is required for enrollment. Applicants should call the Health Occupations Department at 224-4111 to schedule an interview with the instructor. Applicants must be current licensed nurses. During the first week of the course, students must submit proof to the instructor of current immunizations, New Mexico RN or PN license, CPR card and a physical exam.

There is a \$35 course fee which covers the cost of hospital parking permits, name tags and preventive lab tests in case of needle stick exposure. Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4166.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
PRNS 255L	Perioperative Nurse Specialist Theory/Lab	8
PRNS 265C	Perioperative Nurse Specialist Clinical Experience	6
	Total.....	14

OFFICE ADMINISTRATION (Formerly Administrative Assistant)

Business Occupations Department

The Office Administration program provides opportunities for individuals to develop marketable skills in the areas of interpersonal relations, office technology, office accounting, written communication, and computer applications to meet the demands and expanded responsibilities of today's administrative workforce. The administrative profession offers a bright career that is challenging and rewarding. The program provides graduates with the foundation to move into positions with more responsibility and higher wages. Many administrative professionals are taking over duties once held by middle managers.

Employment growth is expected in the administrative profession. According to the U.S. Department of Labor, 400,000 new secretarial jobs will be added to the workforce by the year 2005.

Individuals who have already attained a Certified Professional Secretary (CPS) rating may receive credit hours toward the Office Administration associate of applied science degree. Students may contact the director for more information about advanced placement.

The associate of applied science degree transfers to the University of New Mexico for credit toward a Bachelor of Science degree in Education in Technology and Training within Organizational Learning and Technology.

The program was previously named Administrative Assistant.

Information about this program is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the certificate/associate of applied science degree program in Office Administration includes:

Legal Concentration Certificate

Term 1: AA 101, 102, BA 113 or 133, BA 121, 150

Term 2: AA 107, 143, ACCT 111, BA 122, CR 240

Term 3: AA 200, 202, 205, COMM elective, A & S elective

Term 4: AA 231, 260

Additional Degree Requirements

Term 4: AA 112, BA 131, ENG 101

Term 5: approved legal elective, Biological and Physical Science elective or MATH 119 or higher (except MATH 215 and 296), Social Science/Humanities elective

Medical Concentration Certificate

Term 1: AA 101, 102, BA 121, 150, CR 132

Term 2: AA 107, 143, 275, ACCT 111, BA 122

Term 3: AA 205, 276, BA 113 or 133, COMM elective, A&S elective

Term 4: AA 260, 277

Additional Degree Requirements

Term 4: AA 112, BA 131, approved medical elective

Term 5: ENG 101, Biological and Physical Science elective or MATH 119 or higher (except MATH 215 and 296), Social Science/Humanities elective

Office Technology Concentration Certificate

Term 1: AA 101, 102, BA 113 or 133, BA 121, 150

Term 2: AA 107, 143, ACCT 111, BA 122, CIS 130, 140, 160

Term 3: AA 200, 202, 205, approved office technology elective, A&S elective

Term 4: AA 260, COMM elective

Additional Degree Requirements

Term 4: AA 112, 231, BA 131

Term 5: ENG 101, Biological and Physical Science elective or MATH 119 or higher (except MATH 215 and 296), Social Science/Humanities elective

OFFICEADMINISTRATIONCORE

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
AA 101	Beginning Keyboarding	3
AA 102	Keyboard Applications	3
AA 107	Intermediate Keyboard Skill-building	2
AA 143	Word Processing	3
AA 205	Advanced Keyboard Skill-building	2
AA 260	Business Procedures	3

ACCT 111	Business Math	3
BA 113	Introduction to Business	
or BA 133	Principles of Management	3
BA 121	Business English	3
BA 122	Business Writing	3
COMM Elective	.....	3
BA 150	Introduction to Computers	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
	Arts & Sciences Elective (except Military Studies and CSCI 101)	3
	Subtotal	38

CONCENTRATIONS FOR CERTIFICATE OR DEGREE (One Concentration Required)

LEGAL CONCENTRATION

AA 200	Advanced Word Processing	3
AA 202	Spreadsheet and Database Management	3
AA 231	Business English Applications	3
CR 240	Legal Terminology	3
	Total Required for Certificate	50

Additional Degree Requirements

AA 112	Office Accounting Procedures	4
BA 131	Business Interpersonal Skills	2
	Approved Elective for Legal Concentration	3
ENG 101	College Writing	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	
or Biological and Physical Science Elective	.....	3-4
	Social Science/Humanities Elective	3
	Total Required for Degree	68-69

Approved Electives for Legal Concentration

AA 296	Topics Course	1-3
AA 298	Internship	4
AA 299	Cooperative Education	4
BA 211	Business Law	3
CIS 143	MS Outlook (5 weeks)	1
JUD 101	Introduction to Judicial Studies	3
LAS 101	Introduction to Legal Assistant Studies	3
SSKL 211	Employment Skills—General (15 hours)	1

MEDICAL CONCENTRATION

AA 275	ICD-9-CM Coding	3
AA 276	Current Procedural Terminology (CPT)	3
AA 277	Medical Insurance	3
CR 132	Medical Terminology and Anatomy	3
	Total Required for Certificate	50

Additional Degree Requirements

AA 112	Office Accounting Procedures	4
BA 131	Business Interpersonal Skills	2
	Approved Elective for Medical Concentration	3
ENG 101	College Writing	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	
or Biological and Physical Science Elective	.....	3-4
	Social Science/Humanities Elective	3
	Total Required for Degree	68-69

Approved Electives for Medical Concentration

AA 170	Business Telephone Techniques (5 weeks)	1
AA 171	Working with the Challenging Customer (5 weeks)	1
AA 173	Time Management (5 weeks)	1
AA 174	Computers in the Medical Office (5 weeks)	1
AA 231	Business English Applications	3
AA 270	Medical Transcription	3
AA 296	Topics Course	1–3
AA 298	Internship	4
AA 299	Cooperative Education	4
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
DE 101	Data Entry Skill-building (7.5 weeks)	2
SSKL 211	Employment Skills—General (15 hours)	1

OFFICE TECHNOLOGY CONCENTRATION

AA 200	Advanced Word Processing	3
AA 202	Spreadsheet and Database Management	3
CIS 130	Microsoft Window (5 weeks) [previously MMS 150]	1
CIS 140	PowerPoint Fundamentals (5 weeks) [previously MMS 157]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
	Approved Elective for Office Technology Concentration	3
	Total Required for Certificate	50

Additional Degree Requirements

AA 112	Office Accounting Procedures	4
AA 231	Business English Applications	3
BA 131	Business Interpersonal Skills	2
ENG 101	College Writing	3
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	
	or Biological and Physical Science Elective	3–4
	Social Science/Humanities Elective	3
	Total Required for Degree	68–69

Approved Electives for Office Technology

AA 170	Business Telephone Techniques (5 weeks)	1
AA 171	Working with the Challenging Customer (5 weeks)	1
AA 173	Time Management (5 weeks)	1
AA 250	Machine Transcription	3
AA 296	Topics Course	1–3
AA 298	Internship	4
AA 299	Cooperative Education	4
ACCT 157	Beginning Quickbooks (5 weeks) [previously BA 157]	1
BA 211	Business Law	3
	CIS Computer Courses (except CIS 120, 123, 142, 150, 155)	3
DE 101	Data Entry Skill-building (7.5 weeks)	2
SSKL 211	Employment Skills—General (15 hours)	1

OFFICE ASSISTANT

Business Occupations Department

This two-term certificate program offers entry-level office-related skills for students who prefer to begin a career quickly. Students acquire basic English, computer, word processing, and business interpersonal skills. The courses in this program may be applied toward an Office Administration certificate/associate of applied science degree.

Information about this program is available from the director at 224-3819 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the Office Assistant certificate includes:

Term 1: AA 101, 102, BA 121, 131, 150

Term 2: AA 143, 170, 171, ACCT 111, CIS 130, 160, elective

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
AA 101	Beginning Keyboarding	3
AA 102	Keyboard Applications	3
AA 143	Word Processing	3
AA 170	Business Telephone Techniques (5 weeks)	1
AA 171	Working with the Challenging Customer (5 weeks)	1
ACCT 111	Business Math	3
BA 121	Business English	3
BA 131	Business Interpersonal Skills (7.5 weeks)	2
BA 150	Introduction to Computers	4
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
	Approved Elective	3
	Total Required for Certificate	28

Approved Electives

AA 107	Intermediate Keyboard Skill-building	2
AA 173	Time Management (5 weeks)	1
AA 200	Advanced Word Processing	3
AA 202	Spreadsheet and Database Management	3
AA 296	Topics Course	1-3
AA 298	Internship	4
AA 299	Cooperative Education	4
BA 122	Business Writing	3
BA 252	Customer Relations	3
CIS 140	PowerPoint Fundamentals (5 weeks) [previously MMS 157]	1
CIS 143	MS Outlook (5 weeks)	1
SSKL 211	Employment Skills—General (15 hours)	1

The Customer Service Representative 90-hour training course offered through the TVI Workforce Training Center can substitute for AA 170, 171 and 173.

PHARMACY TECHNICIAN

Health Occupations Department

Pharmacy Technician is a two-term certificate program that prepares persons to assist pharmacists in the community or hospital pharmacy. Students prepare, mix, assemble and label medications. They also prepare sterile products including irrigation and intravenous admixtures. Instruction is provided in the classroom, in laboratories on campus and in local health care facilities. Arts & Sciences courses listed in the curriculum may be taken prior to entering the program.

There is a \$35 uniform fee for one lab coat, and name tag.

Prerequisites are:

- high school diploma or equivalent
- RDG 099 or equivalent
- ENG 099 or equivalent
- MATH 100A or equivalent
- CHEM 111/112 Introduction to Chemistry

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4168.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
PT 110	Introduction to Pharmacy Technology	3
PT 111L	Pharmacy Technician Lab I	2
PT 115	Pharmacy Technician Anatomy and Physiology	3
PT 116	Pharmacy Calculations	3
PT 120	Advanced Pharmacy Technology	3
PT 121L	Pharmacy Technician Lab II	3
PT 122C	Pharmacy Technician Practicum	5
PT 125	Pharmacology for Pharmacy Technicians	3

Required Arts & Sciences Courses

COMM 221	Interpersonal Communication Studies	3
CSCI 101	Computer Skills	
or BA 150	Intro to Computer Processing	
or CP 176L	Introduction to Technology Computer Applications	4
Total		32

PHLEBOTOMY

Health Occupations Department

The primary work of a phlebotomist is to draw blood specimens for testing from healthcare clients. The job includes establishing a professional relationship with the client, obtaining blood specimens by venipuncture and skin puncture procedures, performing bedside testing, preparing and maintaining equipment, entering data into the computer and performing clerical duties. The job requires a lot of walking, bending and standing.

Applicants are required to present evidence of current hepatitis B (HBV), tetanus, rubella and rubeola immunizations, PPD testing and certification in cardiopulmonary resuscitation (CPR) before beginning the clinical part of the course. Students should possess good organizational skills and the ability to prioritize duties, the ability to communicate with clients, and manual dexterity.

To receive a certificate, a student must complete the eight-week, 220-hour program, which includes four weeks of classroom instruction in theory and lab and four weeks of experience in local hospitals and/or clinics, with a grade of C or better in all courses. The program is offered each term.

A \$40 uniform fee covers the cost of a lab coat, health tests, name tags, hospital parking permits and preventive lab tests in case of needle stick exposure.

Prerequisites are:

- high school diploma or equivalent
- MATH 099 or equivalent
- ENG 099 or equivalent
- RDG 099 or equivalent

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-5068.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
PHLB 101	Introduction to Phlebotomy	4
PHLB 122C	Clinical Phlebotomy	3
Total		7

PLUMBING

Trades & Service Occupations Department

The Plumbing certificate program provides safety training, technical knowledge and occupational skills necessary to enter the plumbing industry. Fundamentals of layout, assembly and installation are covered, as well as nomenclature of tools and materials and practice with the tools of the trade. Courses also may be applied toward a degree in Mechanical Technology.

Emphasis is on new construction, maintenance and remodeling; installation of fixtures; alteration, planning and coordination of the job; repair of piping systems; installation of water, soil and vent lines and application of codes.

Students must be free of chronic respiratory diseases and allergies to plumbing fluxes, oils, glues and plastic compounds, and must be able to lift 50 pounds.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

A suggested schedule per term includes:

Term 1: PLMB 101, 101L, 102, 102L, 103, 103L, 105, 106L, EPT 213

Term 2: PLMB 111, 111L, 112L, 115, 116L, 173L, MH 104, MH 106

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
PLMB 101	Basic Plumbing Theory	1
PLMB 101L	Basic Plumbing Lab	2
PLMB 102	Plumbing Systems Theory	1
PLMB 102L	Plumbing Systems Lab	2
PLMB 103	Heating Control Circuitry Theory	1
PLMB 103L	Heating Control Circuitry Lab	1
PLMB 105	Plumbing Blueprint Reading I	1
PLMB 106L	Backflow Prevention	2
EPT 214A	Occupational Safety I.....	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
PLMB 111	Systems Layout/Maintenance Theory	1
PLMB 111L	Systems Layout Lab	2
PLMB 112L	Systems Maintenance Lab	2
PLMB 115	Plumbing Blueprint Reading II	2
PLMB 116L	Building Maintenance, Heating and Cooling	1
MH 104	Manufactured Housing Plumbing	2
MH 106	Manufactured Housing Appliance Services	2
	Total.....	26

Optional Courses

PLMB 170	Mechanical Trades Math	1
PLMB 171	Journeyman Preparation	3
PLMB 173L	Orbital Welding Systems	3
PLMB 174L	Polyvinylidene Fluoride (PVDF) Welding Systems	4

PRE-ENGINEERING

Technologies Department

The Pre-Engineering program includes general background courses in mathematics and science and an introduction to the concepts and methods of engineering. The associate degree represents a halfway point for those seeking a Bachelor's degree in engineering, as graduates may continue their studies in a specialized area of engineering at a four-year college. Students planning to transfer to complete bachelor of science degree programs are advised to refer to the catalogs of their receiving institution. This degree does not prepare one for specific job opportunities; but, rather, provides a broad educational background on which to build a career through further education or work experience. The student who is interested in a two-year program that will provide specific work skills should consider other programs at TVI.

Degree requirements include completion of all courses in the curriculum (or equivalent), for a total of 63-64 hours.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at (505) 224-3340.

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
<i>Term 1</i>		
MATH 162	Calculus 1	4

ENG 101	College Writing	3
CHEM 121/121L	General Chemistry I	4
	¹ Social Science Elective	3
<i>Term 2</i>		
CSCI 151	Intro to Computer Programming	4
ENG 102	Analytic and Argumentative Writing	3
PHYS 160	General Physics I	4
MATH 163	Calculus II	4
	¹ Humanities Elective	3
<i>Term 3</i>		
MATH 264	Calculus III	4
PHYS 161	General Physics II	4
ENG 219	Technical Writing	3
¹ CHEM 122/122L	or Science Elective	3-4
	¹ Social Science Elective	3
<i>Term 4</i>		
PHYS 262	General Physics III	4
SPAN 101 or FREN 101	.....	4
	¹ Humanities Elective	3
	¹ Fine Arts Elective [Music (non-studio) or Art or Theatre]	3
	Total for Associate Degree	63-64

¹ The Humanities, Science, Social Science and Fine Arts electives may be chosen from a variety of Arts & Science courses in the TVI Catalog. Students planning to transfer to complete bachelor degree programs are advised to refer to the catalogs of their receiving institution.

PRE-MANAGEMENT

Business Occupations Department

This associate of arts degree is designed to substantially fulfill the freshman and sophomore course requirements for admission to baccalaureate degree programs at New Mexico colleges and universities. The degree's general education curriculum is accepted for transfer as the general education core. Articulation agreements have been made with New Mexico Highlands University and the Anderson Schools of Management at the University of New Mexico to facilitate the transfer process.

Students should communicate with the Pre-Management director as well as with admissions advisors at the college or university where they plan to complete the bachelor's degree. Courses taken with the credit/no credit option, transfer credits and non-traditional credits which are accepted by TVI may not be accepted by the transfer institution.

Information about this program is available from the director at 224-3821 or from the Advisement Centers at 224-3177 or 224-5646.

A suggested schedule per term for the associate of arts degree in Pre-Management includes:

Term 1: BA 113 or 133, ENG 101, BA 150 or CSCI 101, MATH 121

Term 2: ENG 102, ECON 200, PSY 105 or SOC 101, a statistics course¹, lab science

Term 3: ECON 201, ENG 219, 220 or COMM 130, 221 or 232, lab science, social and behavioral science elective, language

Term 4: ACCT 101, humanities elective, fine arts elective, additional transferable courses²

Term 5: ACCT 102, BA 211, social & behavioral science elective, additional transferable courses²

¹Depending on requirements of the college or university to which the student will transfer, additional MATH courses may be required prior to the statistics course. Students should consult the Pre-Management director or admissions advisor at the transfer institution.

²Consult the Pre-Management director or admissions advisor at the transfer institution.

RECOMMENDATIONS AND ADDITIONAL TRANSFERABLE COURSES

New Mexico Highlands University:

Recommended: MATH 145, BA 133

Transferable: ACCT 111 (equivalent to BUS 110 at NMHU); ACCT 201 (equivalent to ACCT 387 at NMHU); ACCT 280 (equivalent to ACCT 288 at NMHU); BA 222 (equivalent to MKTG 302 at NMHU)

Anderson Schools of Management:

Recommended: MATH 180, 245 (180 is prerequisite), BA 113

Transferable: MATH 162 or 180

GENERAL EDUCATION REQUIREMENTS

Credit Hours

Communications (students having advanced placement in English may replace credit hours with upper level English, excluding ENG 119)

ENG 101 and 102 or equivalent 6

ENG 219, 220 or COMM 130, 221 or 232 3

Subtotal **9**

Mathematics¹ (See recommended courses for transfer institution)

MATH 121 or 150 3-4

MATH 145 or 245 (statistics; MATH 180 is prerequisite for 245) 3

Subtotal **6**

Laboratory Science (must include one lab) 7

Social and Behavioral Sciences

PSY 105 or SOC 101 3

ECON 200 and 201 6

Two additional courses from anthropology, economics, political science, geography, psychology, sociology 6

Subtotal **15**

Humanities 3

Language (non-English) 3

Fine Arts (art, music, or theater) 3

Total General Education Requirements **46-47**

BUSINESS REQUIREMENTS

ACCT 101 and 102 (transfers equivalent to 6 credit hours) 9

BA 150 or CSCI 101 4

BA 113 or 133 (See recommendations for transfer institution) 3

BA 211 3

Total Business Requirements **19***

Total **65-66***

*Transfers as 62 credit hours since 9 hours of accounting transfer as six.

PROFESSIONAL COOKING

Trades & Service Occupations Department

The Professional Cooking program emphasizes preparation and presentation of flavorful, nutritional meals, and occupational safety/sanitation. Speed and efficiency are stressed in hands-on kitchen/restaurant situations. Students are prepared for entry as food service workers into the rapidly growing food and hospitality industry. Courses also may be applied toward a degree in Culinary Arts.

Classes are held in modern commercial kitchens where students prepare food and operate a cafeteria line including cash registers. Advanced students operate the Student Specialties dinner program, a fine dining restaurant open to the public (advanced reservations required). Students must be free of chronic allergies. A physician's certificate must be presented to TVI before the start of lab classes stating that the student is free from tuberculosis in a transmissible form.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3762.

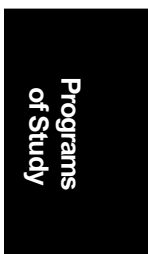
A suggested schedule per term includes:

Term 1: QUFD 101, 103L, 105L, 107L, 108L, FSMG 101A, 101B, BKNG 102

Term 2: QUFD 111, 112L, 113L, 114L, 115L, computer course

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BKNG 102	Food Service Math	2
QUFD 101	Quantity Food Theory I	2



QUFD 103L	Buffet Procedures	2
QUFD 105L	Breakfast/Lunch	2
QUFD 107L	Cold Food Preparation	2
QUFD 108L	Quantity Food Production	2
FSMG 101A	Food Sanitation Principles	2
FSMG 101B	Applied Food Safety	1
QUFD 111	Quantity Food Theory II	2
QUFD 112L	Dining Room Skills	2
QUFD 113L	Cold Food Preparation II	2
QUFD 114L	Stocks and Sauces—Sous Chef.....	2
QUFD 115L	Entree (Meat and Fish Preparation)	2

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4
	Total.....	29

Optional Courses

CTRG170L	Catering.....	10
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REAL ESTATE

Business Occupations Department

The Real Estate courses are for persons seeking New Mexico state licensing or continuing education credits in real estate and appraisal. All courses are approved by the New Mexico Real Estate Commission. Courses listed in this section may be used to meet requirements for the real estate concentration for the associate of applied science degree in Business Administration.

Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the director at 224-3823 or from the Advisement Centers at 224-3177 or 224-5646.

Credit courses which meet New Mexico Real Estate Commission requirements are:

Course #	Course Name	TVI Credit Hours	Continuing Education Contact Hours	Pre-Licensing Contact Hours
BA 270	Real Estate Law	3	10	**30
BA 271	Real Estate Practice	3	10	**30
BA 272	Real Estate Appraisal	3	10	30 (*37.5)
BA 273	Real Estate Finance	3	10	30
BA 274	Real Estate Investment	3	10	30
BA 275	Property Management	3	10	30
BA 279	Uniform Standards of Professional Appraisal Practice	2	0	*15
BA 280	Fair Housing Law	1	4	n/a
BA 281	Americans with Disabilities Act and Related Handicap Discrimination Law	1	4	n/a
BA 282	Appraising the Single Family Residence	3	10	30
BA 283	Rules and Regulations of the New Mexico Real Estate Commission	1	4	n/a (*37.5)

*Pre-licensing for Appraisal Credit

**Pre-licensing for New Mexico Real Estate Sales Agent

REGISTERED NURSE REFRESHER

Health Occupations Department

The RN Refresher special courses meet the requirements of the State of New Mexico Nursing Practice Act 61-3-24.D. for nurses who have not been actually engaged in nursing for five years or more. It is approved by the New Mexico Board of Nursing. The curriculum focuses on updates in all major areas of nursing practice.

A physical exam, PPD, current immunizations and current CPR certification for healthcare professionals (BLS) are required to start clinical experience. White uniform and shoes and a stethoscope are required for clinical experience.

The \$20 course fee covers the cost of supplies and preventive lab tests in case of needle stick exposure. There are additional fees payable to the New Mexico State Board of Nursing for licensure endorsement and reinstatement if a nursing license has expired.

The eight-week RN Refresher course is offered once a year in the spring term on the Main Campus and twice a year, spring and summer via Distance Learning. Students enrolled in this program may not be eligible to receive financial aid or Veterans Administration benefits.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-4125.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
RNR 255L	Refresher Theory/Lab	7
RNR 265C	Refresher Clinical Experience	2
	Total.....	9

RESIDENTIAL WIRING

Trades & Service Occupations Department

The Residential Wiring certificate program provides the student with job-site safety training, OSHA compliance and entry-level skills for employment in residential electrical construction, maintenance or related fields. This two-term certificate is offered for those wishing to pursue a Residential Electrical Journeymen's Certificate of Competency from the State Regulation and Licensing Department (ER-1J). A three-term certificate in Electrical Trades is offered for those wishing to pursue commercial/industrial wiring (EE-98J). For those wishing to earn credit towards an associate in applied science degree in construction technology, a fourth term of electrical courses is available.

Lab instruction is conducted on- and off-campus, enabling students to gain on-the-job experience in residential electrical installation. Electrical safety, circuitry, residential electrical materials, residential wiring and residential services are covered in the lab activities. Theory instruction includes safety, National Electrical Code (NEC) compliance, technical information, math, employment skills, computer skills, residential and material analysis.

Students must have normal color differentiation, be free from chronic respiratory diseases and allergies and be able to lift 50 pounds. Most employers require a valid driver's license and a good driving record.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3716.

A suggested schedule per term includes:

Term 1: ELTR 101, 102, 103L, 104L

Term 2: ELTR 112, 113, 114L, 115L

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ELTR 101	Electrical Theory 1	4
ELTR 102	Electrical Math 1	3
ELTR 103L	Electrical DC/AC Lab	3
ELTR 104L	AC Circuitry, Motors, Generators	3
ELTR 112	Blueprint Reading 1	3
ELTR 113	Electrical Theory II	4
ELTR 114L	Wiring Lab	3
ELTR 115L	Electrical Services.....	3
	Total.....	26

Optional Courses

ELTR 170	Electrical Wiring Circuitry	2
ELTR 171L	Conduit Hand Bending Fundamentals	1
ELTR 173	Industrial Motor Control Circuitry	2
ELTR 174L	Industrial PC Motor Control	3
ELTR 175	Fiber Optical Cable Installation	2
ELTR 176	Electrical Journeyman Preparation	3

ELTR 201	Electrical Theory III	4
ELTR 203	Electrical Motor Control Theory	3
ELTR 204L	Industrial Motor Control Lab	3
ELTR 205L	Industrial Power Distribution	3
ELTR 211	Industrial Electrical Circuitry and Safety	3
ELTR 212	Programmable Logic Controller Theory	4
ELTR 213L	PLC Installation and Operation	3
ELTR 214L	PLC Systems Operation and Troubleshooting	3

RESPIRATORY THERAPY

Health Occupations Department

The respiratory care profession specializes in diagnostic testing, therapeutic treatment and critical care for patients suffering from life-threatening or chronically disabling cardiopulmonary disorders. A respiratory therapist is a graduate of a two-year associate of science or four-year bachelor of science degree program and is capable of performing at an advanced level.

Under medical direction, respiratory therapists assess and treat clinical problems. They monitor and evaluate cardiorespiratory function, perform diagnostic tests and treatments, research treatment effectiveness and act as consultants to physicians, nurses and other healthcare specialists. Respiratory therapists also serve as educators.

Employment opportunities are in urban and rural healthcare facilities and with medical equipment suppliers and agencies providing home healthcare and rehabilitation services.

The TVI Respiratory Therapy (RT) associate of science program includes classroom and laboratory instruction and supervised clinical experiences at local hospitals and other facilities. The curriculum includes basic and advanced instruction in cardiorespiratory anatomy, physiology and pathophysiology, critical care medicine, cardiopulmonary function, respiratory home care and pulmonary rehabilitation. The emphasis is on developing problem-solving and decision-making skills. The RT program includes instruction by faculty from the University of New Mexico Medical Center and School of Medicine.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Committee on Accreditation for Respiratory Care (COARC). Graduates are eligible to take the National Board for Respiratory Care (NBRC) Certification and Registry examinations to obtain Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT) credentials. Successful completion of the certification exam qualifies individuals to become recognized as licensed Respiratory Care Practitioners (RCP) in New Mexico.

The program begins in the fall term. Information sessions covering the petition and selection process and respiratory care careers are scheduled regularly; students should contact the Health Occupations Department for dates and times or call the Health Occupations information hotline at 224-4161. Anyone interested in the Respiratory Therapy program is strongly encouraged to attend one of these information sessions.

Students are responsible for meeting the prerequisites. Arts & Sciences courses may be taken prior to entering the program and it is recommended that students complete as many of these courses as possible prior to entering the RT core courses. Once all prerequisite requirements are fulfilled, students may petition for enrollment in the core courses of the RT curriculum. If the number of eligible petitioners exceeds the number of positions available, preference will be given to those who have completed the most Arts & Sciences courses required for the RT curriculum. Petitioners will then be ranked by date of completion of petition eligibility requirements. If necessary, petitioners will be randomly selected. Additional positions may be made available for individuals with established residence in rural communities of New Mexico. The procedure for admission to the program under this condition is available from the director of the Respiratory Therapy program. Students accepted to begin RT courses must have a physical exam and submit a completed health form with evidence of current immunizations before beginning clinical courses.

Students pay an initial \$90 fee to cover the cost of the uniform, stethoscope, identification badges, CPR certification, hospital parking permits and preventive lab tests in case of needle stick exposure. An additional \$20 fee during the second year covers parking. A \$125 fee for the last clinical course covers the cost of assessment exams to prepare for national board tests.

Prerequisites that must be completed prior to enrollment to RT courses are:

- declare RT as major
- high school diploma or equivalent
- MATH 119 (MATH 120 or equivalent may be substituted for MATH 119 for Fall 2000 entry to the RT Program only. Starting Fall 2001 this substitution will not be allowed.)
- BIO 123/124L or equivalent

- ENG 101 or equivalent
- PSY 105 or SOC 101 or equivalent
- TVI GPA 2.0 or higher

Advanced Placement: Advanced placement means enrollment in RT coursework at or above the level of RT 210. Persons wanting to transfer or challenge RT courses should contact the Health Occupations Department 224-4111. There are two ways in which advanced placement can be granted to Respiratory Therapy applicants:

- 1) Transfer: Transfer credit may be awarded for documented equivalent therapist coursework completed at other CAAHEP/COARC accredited programs.
- 2) Challenge: Technician graduates with documented work experience in respiratory care may apply to challenge portions of the RT curriculum. There is a \$15 fee for each challenge exam.

Challenge and transfer applicants must meet all prerequisites for enrollment in the RT program. Entry will be granted on a space available basis.

In order to satisfy prerequisite and corequisite requirements, the following order of coursework is recommended:

Fall Term: RT 110, 115L, 121C, 131 and CHEM 111/112L

Winter Term: RT 111, 116L, 122C, 133 and BIO 237/247L

Summer Term: RT 210, 215L, 221C, and PHIL 245M

Fall Term: RT 211, 216L, 222C and BIO 238/248L

Winter Term: RT 212, 217L, 223C and BIO 239/239L

Information about this program is available from the Advisement Center at 224-3177 or 224-5646 and from the program director at 224-4123.

REQUIRED RESPIRATORY THERAPY COURSES

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
RT 110	Respiratory Therapy Principles and Practices I	3
RT 111	Respiratory Therapy Principles and Practices II	3
RT 115L	Respiratory Therapy Lab I	1
RT 116L	Respiratory Therapy Lab II	1
RT 121C	Clinical Experiences I	5
RT 122C	Clinical Experiences II	5
¹ RT 131	Physics of Respiratory Therapy	3
RT 133	Pharmacology of Respiratory Therapy	3
RT 210	Advanced Respiratory Therapy I	3
RT 215L	Advanced Respiratory Therapy Lab I	1
RT 221C	Advanced Clinical Experiences I	5
RT 211	Advanced Respiratory Therapy II	3
RT 216L	Advanced Respiratory Therapy Lab II	1
RT 222C	Advanced Clinical Experiences II	5
RT 212	Advanced Respiratory Therapy III	3
RT 217L	Advanced Respiratory Therapy Lab III	1
RT 223C	Advanced Clinical Experiences III	5

Required Arts & Sciences Courses

BIO 237/247L	Human Anatomy and Physiology I/Lab	4
BIO 238/248L	Human Anatomy and Physiology II/Lab	4
BIO 239/239L	Microbiology/Lab	4
² CHEM 111/112L	Introduction to Chemistry	4
PHIL 245M	Biomedical Ethics	3
Total		70

¹Physics 102 or 151 or equivalent may be substituted for RT 131.

²CHEM 121/121L or equivalent may be substituted for CHEM 111/112L.

RETAIL MANAGEMENT *(Degree Program Pending CHE Approval)*

Business Occupations Department

The Retail Management certificate and associate of applied science degree program is designed for students who are planning a career in the field of retailing. This program was developed with the support of the New Mexico Retail Association. The industry-based Retail Management curriculum prepares students for mid-level retail positions such as department managers, assistant managers and entry-level supervisory positions. The retailing courses focus on industry-based skill standards necessary for professional sales associates and retail managers.

A suggested schedule per term for the certificate/associate of applied science degree in Retail Management includes:

Certificate

Term 1: ACCT 101A, 111, BA 113 or 133, BA 150, ECM 176

Term 2: ACCT 101B, BA 222, 251, 252, ENG 101

Term 3: ACCT 102, 254, BA 253, 255, COMM 130 or higher

Term 4: BA 295, BA 298 or 299

Additional Degree Requirements

Term 4: BA 121, ECM 105, A&S course

Term 5: BA 211, ECM 220, A&S course

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
ACCT 101	Accounting I	6
ACCT 102	Accounting II	3
ACCT 111	Accounting Math	3
ACCT 254	Electronic Spreadsheets	3
BA 113 or BA 133	Introduction to Business Principles of Management	3
BA 150 or CP 176 or CSCI 101	Introduction to Computers Introduction to Technology Computer Applications Computer Literacy	4
BA 222	Principles of Marketing	3
BA 251	Retail Merchandising	3
BA 252	Customer Relations	3
BA 253	Retailing	3
BA 255	Retail Supervision	3
BA 295	Capstone Course	1
BA 298 or BA 299	Internship Cooperative Education	4
	COMM Elective	3
ECM 176	Introduction to Internet Commerce	1
ENG 101	College Writing	3
	Total Required for Certificate	49

Additional Degree Requirements

BA 121	Business English	3
BA 211	Business Law	3
ECM 105	Cyber Sales	3
ECM 220	Web Marketing	3
ECON 200	Macroeconomics or higher level	3-4
MATH 119	Methods of Problem Solving or higher (except MATH 215 and 296)	3-4
PHIL 245B	Business Ethics	3
	Total Required for Degree	70-72

For a certificate, students must have at least 6 credit hours of A&S courses. Degree students must have at least 15 credit hours of A&S courses.

STENOTRANSSCRIPTION

Business Occupations Department

Stenotranscriptionists produce documents in corporate, government, publishing, medical, legal office settings and in police departments. Stenotranscriptionists may also be self-employed. They use machine shorthand skills, computers, and rapid data entry software to produce documents at 100 wpm and faster.

To graduate from the stenotranscription program, students must pass three five-minute tests of literary at 140 wpm and three five-minute tests of testimony at 150 wpm with 96 percent accuracy and a transcription rate of 16 wpm. Students must also complete a stenotranscription internship with a minimum of 75 clock hours of practical experience. A minimum of 40 of those hours shall be spent in actual writing time.

Each student develops a broad vocabulary and extensive training in document production, grammar and punctuation skills. These courses emphasize accuracy in document production.

AA 101 and AA 102 are prerequisites for CR 103L.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program chair at 224-3847.

A suggested schedule per term for the Stenotranscription certificate program includes:

Term 1: BA 121, BA 131, BA 150, CR 103L

Term 2: CR 104L

Term 3: CR 210L, CR 251

Term 4: CR 298A

CERTIFICATE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 121	Business English	3
BA 131	Business Interpersonal Skills (7.5 weeks)	2
BA 150	Introduction to Computers	4
CR 103L	Machine Shorthand I	7
CR 104L	Machine Shorthand II	7
CR 210L	Machine Shorthand III	8
CR 251	Stenotranscription	3
CR 298A	Internship	2
	Approved Elective	1-4
	Total	37-40

Approved Electives

AA 143	Word Processing	
or CIS 120	WordPerfect for Windows [previously MMS 134]	
or CIS 123	Microsoft Word for Windows [previously MMS 135]	3
AA 231	Business English Applications	3
AA 250	Machine Transcription	3
AA 260	Business Procedures	3
AA 270	Medical Transcription	3
AA 275	ICD-9-CM Coding	3
AA 276	CPT Coding	3
BA 211	Business Law	3
BA 252	Customer Relations	3
CIS 110	DOS Fundamentals (5 weeks) [previously MMS 151]	1
CIS 130	Microsoft Windows (5 weeks) [previously MMS 150]	1
CIS 160	Introduction to Internet (5 weeks) [previously MMS 160]	1
CR 122	Word Power (7.5 weeks)	1
CR 123	Punctuation for Court Reporters	3
CR 132	Medical Terminology and Anatomy	3
CR 240	Legal Terminology	3
CR 250L	Computer-Aided Transcription	3
CR 252	Medical/Legal Stenotranscription	2
CR 296	Topics Course	1-3

CR 297	Special Problems	variable
CR 299	Cooperative Education	4
ENG 240	Traditional Grammar	3
ENTR 103	Entrepreneurship	3

SURGICAL TECHNOLOGY

Health Occupations Department

Surgical Technology is a two-term certificate program which presents the knowledge and skills necessary to work in hospital operating rooms and free-standing day surgery centers, including preparation of a surgical environment and functioning as a member of the operating room team. Graduates may take a national certification examination.

All students are required to meet program prerequisites prior to enrolling. Prior to clinical courses students are required to have current Basic Life Support (BLS) provider CPR certification, a physical exam, PPD and current immunizations (including tetanus, rubella, Rubeola and hepatitis B). The TVI Health Center provides these services for a fee if the student does not have a private physician. Students must arrange for their own transportation to attend all classes, observations and clinical experiences, which may be required on weekends or evenings.

The program begins in the fall term. A \$35 uniform fee covers the cost of a lab coat, hospital parking permits, name tags and preventive lab tests in case of a needle stick exposure. Each student is required to have one set of surgical scrubs for lab.

Prerequisites are:

- high school diploma or equivalent
- MATH 099 and RDG 099 or equivalent
- completion of all required Arts & Sciences courses before fall term.

The following order of courses is recommended:

Fall Term: ST 110, 112L, 114C

Spring Term: ST 120, 124C

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the program director at 224-4166.

REQUIRED ARTS & SCIENCE COURSES

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
¹ BIO123/124L	Biology for Health Sciences/Lab	4
BIO 136/139L	Anatomy and Physiology/Non-Majors	4
	or BIO 237/247L Anatomy and Physiology I	4
	and BIO 238/248L Anatomy and Physiology II	4
COMM 221	Interpersonal Communications	3
ENG	101 or 102 College Writing	3

REQUIRED SURGICAL TECHNOLOGY COURSES

ST 110	Beginning Surgical Technology I	4
ST 112L	Surgical Technology Lab	3
ST 114C	Surgical Technology Clinical I	6
ST 120	Advanced Surgical Technology II	4
ST 124C	Surgical Technology Clinical II	8
	Total	3640

¹BIO 110/112L may be substituted for BIO 123/124L for Fall 2000 only. Starting Fall 2001 this substitution will not be allowed.

TRANSPORTATION TECHNOLOGY

Trades & Service Occupations Department

The Transportation Technology associate degree is available to students with two concentrations: Automotive Technology and Diesel Equipment Technology. The program prepares individuals for entry-level positions, including management and supervision, in the transportation industry.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

AUTOMOTIVE TECHNOLOGY CONCENTRATION

A suggested schedule for per term includes:

Term 1: AUTC 121L, 122L, 123L, 126L, MATH 119 or higher

Term 2: AUTC 131L, 132L, 133L, 134L, EPT 214A, 214B, 214C

Term 3: AUTC 221L, 222L, 223L, ENG 101, BA 150 or CP 176 or CSCI 101

Term 4: EPT102, WELD elective, COMM 130 or higher, PHYS 102 or higher, humanities/social and behavioral science elective

Course No.	Course Name	Credit Hours
AUTC 121L	Brake Systems	4
AUTC 122L	Suspension and Alignment	4
AUTC 123L	Manual Transmissions	4
AUTC 126L	Automotive Electrical	4
AUTC 131L	Engine Repair	4
AUTC 132L	Automatic Transmissions	4
AUTC 133L	Automotive Electronics	4
AUTC 134L	Air Conditioning and Heating	4
AUTC 221L	Engine Performance I	4
AUTC 222L	Engine Performance II	4
AUTC 223L	Engine Performance II	4

Additional Required Trades & Service Occupations Courses

EPT 102	Emergency Response	3
EPT 214A	Occupational Safety I	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
	Welding Elective	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	3	
ENG 101	College Writing	3
	Humanities/Social or Behavioral Science Elective	3
MATH 119 or higher	3-4	
PHYS 102 or higher	3	
Total	72-73	

DIESELEQUIPMENT TECHNOLOGY CONCENTRATION

A suggested schedule per term includes:

Term 1: DETC 103L, 104L, 105L, 106, 107, 108, MATH 120 or higher

Term 2: DETC 111L, 112, 112L, 113, 113L, 114, AUTC 126L, ENG 101, EPT 214A, 214B, 214C

Term 3: DETC 201, 201L, 202, 202L, 203, 203L, EPT 102, BA 150 or CP 176 or CSCI 101

Term 4: MATT 105L, WELD elective, COMM 130 or higher, PHYS 102 or higher, humanities/social or behavioral science elective

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
DETC 103	Manual Shift Transmissions Theory	1
DETC 103L	Manual Shift Transmissions Lab	2
DETC 104	Drive Axles, Brakes and Automatic Transmissions Theory	1
DETC 104L	Drive Axles, Brakes and Automatic Transmissions Lab	3
DETC 105	Hydraulic Systems Theory	1
DETC 105L	Hydraulic Systems Lab	2
DETC 111	Diesel Engine Overhaul Theory	1
DETC 111L	Diesel Engine Overhaul Lab	3
DETC 112	Precision Measurement and Component Repair Theory	1
DETC 112L	Precision Measurement and Component Repair Lab	2
DETC 113	Diesel Engine Tune-up and Testing Theory	1
DETC 113L	Diesel Engine Tune-up and Testing Lab	2
AUTC 126L	Automotive Electronics	4
DETC 201	Diesel Electrical Theory	2
DETC 201L	Diesel Electrical Lab	3
DETC 202	Diesel Fuel Injection Theory	1
DETC 202L	Diesel Fuel Injection Lab	2
DETC 203	Transport Refrigeration/Air Conditioning Theory	1
DETC 203L	Transport Refrigeration/Air Conditioning Lab	2

Additional Required Trades & Service Occupations Courses

EPT 102	Emergency Response	3
EPT 214A	Occupational Safety I.....	1
EPT 214B	Occupational Safety II	1
EPT 214C	Occupational Safety III	1
MATT 105L	Basic Supporting Machine Tool Principles	2
	Welding Elective	3

Computer Requirement

BA 150	Introduction to Computer Processing	
or CP 176	Introduction to Technology Computer Applications	
or CSCI 101	Computer Literacy	4

Required Arts & Sciences Courses

COMM 130 or higher	3
ENG 101 College Writing	3
MATH 119 or higher	3-4
PHYS 102 or higher	3
Humanities/Social or Behavioral Science Elective	3
Total.....	65-66

TRUCK DRIVING

Trades & Service Occupations Department

The Truck Driving certificate program provides students who are already licensed drivers the basic instruction required to become professional commercial truck drivers. Students learn how to operate a tractor trailer safely and efficiently. The goal is to prepare students to earn the commercial driver's license needed to operate tractor trailers professionally. The program is certified by the Professional Truck Driver Institute of America (PTDIA).

Students must meet the following requirements to be eligible for TRDR 102L and TRDR 103L:

- not have been convicted of or forfeited bond for more than four moving violations in the past three years;
- not have more than one at-fault, preventable accident in the past three years;
- not have been convicted of or forfeited bond for reckless driving;
- not have more than one DWI conviction;
- not have any DWI convictions in the last five years;

- have a valid New Mexico driver's license;
- have a physical examination at a qualified testing facility;
- obtain pre-qualification testing for controlled substances use;
- be at least 18 years old; and
- provide a certified copy of his or her driving record for the past three years.

Students are subject to all Federal Highway Administration drug and alcohol testing rules. Tests (pre-qualification, random, post-accident, reasonable suspicion, return-to-duty and follow-up) are performed when applicable for alcohol and controlled substances. Instructors will provide students detailed information regarding federal drug and alcohol testing and physical examination requirements when they enter TRDR 101.

Students pay a non-refundable course fee of \$200 prior to entering TRDR 102L and \$250 prior to entering TRDR 103L.

This program may not qualify students for Veterans Administration benefits or other financial aid.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
TRDR 101	Basic Operational Theory	6
TRDR 102L	Basic Operational Lab	4
TRDR 103L	Advanced Operational Practices	3
	Total	13

Optional Course

TRDR 171	Material Handling	2
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WEB TECHNOLOGY

Technologies Department

The Web Technology program is designed to meet the needs of a fast-growing industry and career path involving the Internet's World Wide Web. The one-year certificate offers basic entry-level skills in the field. These skills include hypertext markup language (HTML), basic scripting, web design, and programming and network management. The degree offers advanced skills in web management, critical thinking and communication.

To enter the program, the student must meet the prerequisites of Math 100 or equivalent, RDG 99 or equivalent, and CP 176 or equivalent.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3340.

CERTIFICATE AND DEGREE REQUIREMENTS

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 121	Business English	3
BA 222	Principles of Marketing	3
CP 105	Fundamentals of Computer Programming	6
CP 132	Introduction to Web Scripting	3
CP 182	Networking Topologies/NOS Environments	3
CP 213	Database Concepts	3
CP 295	Web Site Implementation	1
ENG 101	College Writing	3
CIS 160	Introduction to the Internet	1
CIS 164	Hypertext Markup Language (HTML)	1
CIS 165	Web Construction Coding	1
CIS 260	Beginning Photoshop	1
CIS 261	Intermediate Photoshop	1
CIS 262	Advanced Photoshop	1
BGC 200 or CIS 255	Digital Publishing Desktop Publishing	3
CIS 278	Web Site Design	3

ECM 176	Introduction to Internet Commerce	1
Total Credits for Certificate		38

Additional Associate of Applied Science Degree Requirements

	Communications (COMM) Electives	3
MATH 119	Methods of Problem Solving	4
or MATH 120	Intermediate Algebra	4
PHIL 156	Logic and Critical Thinking	3
	Social and Behavioral Sciences Elective	3

Additional 15 Credits Selected from Courses Below

CP 135	Advanced Web Scripting	3
CP 183	Overview of Network Operating System Environments	3
CP 220	Advanced Database	3
CP 235	Programming in JAVA	3
CP 274L	Introduction to UNIX and WANs	3
CP 275	Advanced UNIX and WAN Administration	3
CP 296	Topics	1-6
CP 297	Special Problems	1-6
CP 298	Internship	3
CP 299	Cooperative Education	3
Total Credits for Degree		66

WELDING

Trades & Service Occupations Department

The Welding certificate program qualifies students for entry-level employment in the metals-processing industry. All courses emphasize safe operations of various welding equipment. Classes meet in well equipped labs where students study, practice and simulate qualifying exercises in oxyacetylene, shielded metal-arc (SMAW), gas metal-arc (GMAW), gas tungsten-arc (GTAW) and pipe welding processes. Instruction is also offered in welding fabrication and materials testing. The program conforms to the American Welding Society EG 2.0-95 training standard for training of entry-level welders. Courses also may be applied to a degree in Metals Technology.

Students must be free of chronic respiratory diseases and have depth perception correctable in both eyes.

Information about this program is available from the Advisement Centers at 224-3177 or 224-5646 and from the director at 224-3718.

A suggested schedule includes:

Term 1: MATT 101, 102; WELD 104L, 106L, 108, 114L, 115L

Term 2: MATT 111, 113, WELD 116L, 202, 205L, 206L, 207L

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
MATT 101	Metals Math I	2
MATT 102	Metals Blueprint Reading I	2
WELD 104L	Oxyacetylene Welding and Cutting	2
WELD 106L	Introduction to SMAW	2
WELD 108	Introduction to Metallurgy	2
WELD 114L	Advanced SMAW	2
WELD 115L	Introduction to GMAW and Fabrication	2
MATT 111	Metals Math II	2
MATT 113	Metals Blueprint Reading II	2
WELD 116L	Introduction to GTAW and Fabrication	2
WELD 202	Advanced Blueprint Reading	2
WELD 205L	Pipe Layout and Welding	2
WELD 206L	Advanced GMAW and Fabrication	2
WELD 207L	Advanced GTAW and Fabrication	2
Total		28

Optional Courses

WELD 105L	Oxyacetylene Brazing/Soldering and Fabrication	2
WELD 107L	Introduction to SMAW Qualifications and Fabrication	2
WELD 117L	Qualifications for SMAW and GMAW	2
WELD 170	Welding Skills	3
WELD 171	Advanced Welding Skills	3
WELD 208L	Qualifications for GTAW	2

COURSE DESCRIPTIONS

Adult Education (non-credit) Classes

Course No. *Course Name*

BSK 040 Basic Language Skills
Explores basic reading/writing strategies using phonics, development of sight vocabulary, and collaborative use of materials in themes relevant to students' lives.

BSK 041 Basic Language Skills II
Improves developmental phonics, dictionary skills, grammar, response to reading and self-expression.

BSK 050 Basic Skills Reading
Analyzes non-fiction and fiction to identify main idea, point of view and organizational patterns. Includes summarizing, drawing conclusions and responding to readings.

BSK 051 Reading in Literature and Arts
Covers reading and analysis of literature (short stories, poetry, drama and commentary) with multi-cultural themes to improve comprehension and prepare for the literature and arts test of the GED.

**BSK 054 Reading in Social Studies
and Science**
Combines study of history, behavioral sciences, political science, geography, and economics, with critical reading in a broad spectrum of science disciplines, including an introduction to plant and animal biology, human biology, earth science, chemistry and physics.

BSK 060 Math Fundamentals
Presents overview of the language and basic concepts of math as well as a refresher in addition, subtraction, multiplication and division using whole numbers and decimals.

**BSK 063 Basic Geometry, Measurement
and Algebra Topics**
Covers measurement/geometry and fundamental algebra necessary for success on the GED exam and in practical problem solving.

BSK 064 Decimals, Fractions and Percentages
Covers decimal counting system, development of problem-solving skills, constructing ratios and proportions to solve word problems; analysis/interpretation of data contained on tables, charts and graphs; and calculation of percentages.

BSK 071 Spelling and Grammar
Provides comprehensive refresher in language mechanics, usage and spelling improvement.

Course No. *Course Name*

BSK 074 Paragraph and Essay Writing
Presents systematic study of the steps in the writing process focusing on sentence structure, grammar, punctuation, syntax and paragraph development, essay structure and organizational methods.

BSK 080 Basic Skills Learning Center
Includes individualized study and tutoring in basic skills math, reading and/or writing with access to computer, video and audio programs as well as other instructional materials in the Adult Education Learning Center at Main or Montoya campus.

BSK 081 Basic Skills Integrated
Provides comprehensive refresher on basic reading, writing and math skills taught both on campus and at community sites to help students prepare for the GED examination or improve competencies. Computer-assisted instruction available in some locations.

BSK 082 Spanish GED
Prepares students for the GED exam conducted in Spanish, including instruction in math, writing, grammar and reading. Some English as a second language instruction in mechanics and usage to prepare for the English competency portion of the Spanish GED exam is included.

BSK 082 GED En Español
Preparación para el examen de GED en español, incluyendo instrucción en matemáticas, escritura, gramática, y lectura. Preparación incluido por el porción del examen que está en inglés.

ESL 040 ESL Literacy
For students who have had no previous exposure to written or spoken English. Introduces alphabet, phonemic system, basic vocabulary and simple sentences in meaningful, communicative contexts.

ESL 050 ESL Beginning I
Develops English language skills with an emphasis on pronunciation practice, listening comprehension, conversation and basic grammar.

ESL 051 ESL Beginning II
Expands students' communication range, which may include listening and reading for meaning, responding to written and oral communication relevant to daily life, and learning grammatical skills and conventions for oral and written English.

ESL 060 ESL Intermediate

Focuses on practice in communication skills for everyday life, which may include voicing opinions and responding appropriately in conversations on familiar topics, discussing short reading selections, learning and reviewing grammatical skills and conventions of oral and written English.

ESL 070 ESL Advanced

Covers conversation, writing, reading and evaluation of materials and study of advanced grammar in meaningful, communicative contexts.

ESL 071 Transitional ESL

For students who can function comfortably in English and who are ready for the workplace or plan to continue their studies in developmental, vocational or liberal arts classes. Provides study of and practice in communication skills with practical information regarding educational programs and support services.

ESL 081 ESL Integrated

Comprehensive, community-based classes for students at all levels of English proficiency. Presents reading, writing, listening, speaking and grammatical skills through group work, paired practice and self-paced instruction.

ESL 085 Citizenship

For students who have a working knowledge of English and are preparing to become American citizens. Covers basic English, American history and government.

ESL 082 ESL Special Topics

Presents various topics. See Schedule of Classes.
Note: Students may also study any ESL subject on an individual basis at the Main Campus or Montoya Campus Adult Education Learning Center.

JLS 040 Job/Life Skills

Examines critical life issues—self-esteem, study skills, parenting and job skills—and explores occupational choices and job-placement services at TVI.

JLS 041 Computer Literacy for Adult Education

Introduces computer hardware and terminology, word processing programs and use of the Internet.

JLS 042 Job Search Skills

Studies positive presentation techniques through job applications, resumés and interviews; exploration of sources of employment particularly helpful for students transitioning from welfare to work.
Note: Students may also study any job/life skills subject on an individual basis at the Main Campus or Montoya Campus Adult Education Learning Centers.

*Credit course descriptions
begin on the next page.*

COURSE DESCRIPTIONS

Academic (credit) Classes

Course #	Course Name	Credit Hours	Course #	Course Name	Credit Hours
AA 101	Beginning Keyboarding	3			
	Keyboarding by touch method and developing speed and accuracy. A minimum average of 25 wpm on three five-minute timings is required to pass this course. (2 theory + 3 lab hours a week) Course fee: \$10				
AA 102	Keyboard Applications	3			
	<i>(Prerequisite: AA 101)</i> Production of business letters, reports and tables and continued development of speed and accuracy. A minimum average speed of 35 wpm on three five-minute timings is required to pass this course. (2 theory + 3 lab hours a week) Course fee: \$15				
AA 105	Keyboard Skill-building	2			
	<i>(Prerequisite: AA 101 or 25 wpm typing speed on a five-minute timing)</i> For students with various levels of keyboarding skills. Evaluation is based on individual speed and accuracy improvement. (5 lab hours a week) Course fee: \$10				
AA 107	Intermediate Keyboard Skill Building	2			
	<i>(Prerequisite: AA 102 or 35 wpm typing speed on a five-minute timing)</i> Building speed and accuracy. A minimum average speed of 45 wpm on three five-minute timings is required to pass this course. (5 lab hours a week) Course fee: \$10				
AA 112	Office Accounting Procedures	4			
	<i>(Prerequisite: ACCT 111)</i> Complete bookkeeping cycle, financial statements and payroll. A computerized practice set is completed in this course.				
AA 143	Word Processing	3			
	<i>(Prerequisites: BA 150 and AA 102 or a minimum typing speed of 35 words a minute on a five-minute timing or permission of director)</i> Basic and intermediate features for preparing business documents. (2 theory + 3 lab hours a week) Course fee: \$15				
AA 170	Business Telephone Techniques	1			
	Tape recorded and role playing activities are used to develop effective speaking, listening and questioning skills. Methods for handling incoming calls, customer orders, customer problems and complaints, outbound calls and sales are presented. (5 weeks)				
AA 171	Working with the Challenging Customer	1			
	Designed to enhance student's ability to act effectively when working with the challenging customer for the purpose of promoting customer satisfaction. (5 weeks)				
AA 173	Time Management Skills	1			
	Principles and activities are presented to aid the student				
				in applying time management skills in a personal and professional environment. (5 weeks)	
			AA 174	Computers in the Medical Office	1
				<i>(Prerequisite: BA 150 or permission of director)</i> Computerized software package is used to introduce tasks performed in a medical office, including scheduling appointments, gathering and recording patient information, recording diagnoses and procedures, billing patients, filing insurance claims, recording payments and preparing reports. (5 weeks; 2 theory + 3 lab hours a week) Course fee \$5	
			AA 180	Work-Site Learning	1
				Participation in an approved customer service setting to promote practical application of Call Center Operations core curriculum. Work-Site Learning is taken in student's final 5 weeks of the program; the student must acquire a minimum of 50 hours. (5 weeks; 1 theory + 9 lab hours a week)	
			AA 200	Advanced Word Processing	3
				<i>(Prerequisites: AA 107 or typing speed of 45 wpm on a five-minute timing, AA 143, Corequisite: AA 202 or permission of director; CIS 140 recommended)</i> Advanced applications for preparing business documents and document integration. (2 theory + 3 lab hours a week) Course fee: \$15	
			AA 202	Spreadsheet and Database Management	3
				<i>(Prerequisite: BA 150 or permission of director)</i> Students use Excel and Access to create business documents. (2 theory + 3 lab hours a week) Course fee: \$15 [Formerly offered as Information Processing]	
			AA 205	Advanced Keyboard Skill-building	2
				<i>(Prerequisite: AA 107 or 45 wpm typing speed on a five-minute timing)</i> Building speed and accuracy. A minimum average speed of 55 wpm on three five-minute timings is required to pass this course. (5 lab hours a week) Course fee: \$10	
			AA 231	Business English Applications	3
				<i>(Prerequisite: BA 122 or permission of director)</i> Compose, transcribe, analyze/edit business documents for correct grammar, punctuation, mechanics and language. Reference materials are used. Course fee: \$10	
			AA 250	Machine Transcription	3
				<i>(Prerequisites: AA 107, AA 143, BA 122 or permission of director; recommended prerequisite: AA 231)</i> Development of speed and accuracy in transcribing mailable copy. (2 theory + 3 lab hours a week) Course fee: \$15	

Course No.	Course Name	Credit Hours
AA 260	Business Procedures	3
<i>(Prerequisites: AA 107, AA 143, BA 122)</i> Office procedures, technology, records management, human relations, telecommunications and job portfolio. Capstone course should be taken in student's final term.		
AA 270	Medical Transcription	3
<i>(Prerequisites: CR 132, AA 107 or 50 wpm typing speed on a five-minute timing, AA 143, BA 121 or permission of director; recommended prerequisite: AA 231)</i> Reinforce medical terminology and develop proficiency in transcribing medical reports, forms, and other types of medical communications using correct format, grammar, punctuation, number, abbreviation, symbols and metric measurement rules. (2 theory + 3 lab hours a week) Course fee: \$15		
AA 275	ICD-9-CM Coding	3
<i>(Prerequisite: CR 132)</i> Hospital coding using International Classification of Diseases (ICD), Clinical Modification codes, the coding book setup and the appropriate codes for diseases and procedures.		
AA 276	Current Procedural Terminology (CPT)	3
<i>(Prerequisite: CR 132, or permission of director; recommended prerequisite: AA 275)</i> Fundamentals of medical office coding using CPT codes. CPT book setup and appropriate codes for office visits, procedures, exams and diagnoses.		
AA 277	Medical Insurance	3
<i>(Prerequisite: AA 275 and AA 276 or permission of director)</i> Topics include ethical and legal issues, basics of health insurance, CPT and ICD-9-CM coding, claims processing, Electronic Data Interchange (EDI), managed care systems and special plans and inpatient and outpatient billing.		
AA 296	Topics Course	1-3
Current topics in office technology.		
AA 297	Special Problems	Variable
<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.		
AA 298	Internship	4
<i>(Prerequisites: AA 143, BA 121, permission of director, and typing skill of 40 wpm on a five-minute timed writing for Office Assistant program or 55 wpm for Office Administration program)</i> Students work a minimum of 150 hours at office-related supervised workstations. Students are not paid for their work but are supervised jointly by TVI and the employer. The student and employer determine the weekly contact hours. (1 theory + 9 lab hours a week)		

Course No.	Course Name	Credit Hours
AA 299	Cooperative Education	4
<i>(Prerequisites: AA 143, BA 121, permission of director, and typing skill of 40 wpm on a five-minute timed writing for Office Assistant program or 55 wpm for Office Administration program)</i> Students work a minimum of 150 hours in a new office-related position. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. The student and employer determine the weekly contact hours. (1 theory + 9 lab hours a week)		
ACCT 100	Introduction to Accounting	3
Provides students with information about basic accounting cycle. Additional topics such as payroll and taxes covered as time permits. Helps students prepare for next-level accounting-related courses. (3 theory hours + 1 lab hour a week)		
ACCT 101	Accounting I	6
<i>(Prerequisites: MATH 099, RDG 099 or equivalent; pre- or corequisite: ACCT 111 or MATH 162 or 180)</i> Students analyze and record business transactions, implement accrual basis accounting and prepare basic financial statements. Uses of financial information for decision making are covered with emphasis on generally accepted accounting principles. ACCT 101A plus ACCT 101B are equivalent to this course.		
ACCT 101A	Accounting IA	3
<i>(Prerequisites: MATH 099 or equivalent; RDG 099 or equivalent)</i> (Students going on to ACCT 101B should take ACCT 111 as a corequisite) This course is the first half of ACCT 101. Students analyze and record business transactions, implement accrual basis accounting and prepare basic financial statements. ACCT 101A plus 101B are equivalent to ACCT 101.		
ACCT 101B	Accounting IB	3
<i>(Prerequisites: ACCT 101A and 111 or MATH 162 or 180)</i> Uses of financial information for decision making are covered with emphasis on Generally Accepted Accounting Principles. This course is the second half of ACCT 101. ACCT 101A and 101B are equivalent to ACCT 101.		
ACCT 102	Accounting II	3
<i>(Prerequisites: ACCT 101, BA 150)</i> Utilization of accounting information for decision making by management in planning and controlling business activities. (ACCT 102 and 180 from current catalog are equivalent to ACCT 102 from 1999 and prior catalogs. Students who have taken ACCT 101 prior to fall 2000 should take ACCT 102A and 102B during 2000-2001 academic year or see the director for advisement.)		
ACCT 102A	Accounting IIA	3
<i>(Prerequisite: ACCT 101 or 101B; pre- or corequisite: BA 150)</i> This course is the first half of ACCT 102 under 1999-2000 and prior catalogs. This class will not be offered after spring of 2001. Students not completing this accounting requirement under 1999-2000 or prior catalogs by spring 2001 must see the director to determine equivalencies.		

Course No.	Course Name	Credit Hours
ACCT 102B	Accounting IIB	3
	<i>(Prerequisite: ACCT 102A, BA 150)</i> This course is the second half of ACCT 102 under 1999-2000 and prior catalogs. This class will not be offered after summer 2001. Students not completing this accounting requirement under 1999–2000 or prior catalogs by summer 2001 must see the director to determine equivalencies.	
ACCT 103	Survey of Accounting for Non-Business Majors	3
	An overview of accounting for non-business majors. Both manual and spreadsheet techniques are employed. Data flow and programming examples of accounting systems are discussed. (2 theory + 3 lab hours a week)	
ACCT 111	Business Math	3
	<i>(Prerequisite: MATH 099 or equivalent; this course is a pre- or corequisite for ACCT101)</i> Basic arithmetic operations related to business applications and accounting. 10-key touch method skills using electronic calculators.	
ACCT 150	VITA Tax Preparation	2
	Introduction to basic tax-return preparation issues and the software to do basic tax returns for low-income taxpayers. VITA = Volunteer Income Tax Assistance.	
ACCT 151	VITA Tax Internship	1
	<i>(Pre- or corequisite: ACCT 150)</i> Current update on tax code changes and 25-30 hours of volunteer preparation of tax returns for low-income taxpayers during spring term at one of TVI's VITA locations.	
ACCT 157	Beginning Quickbooks	1
	<i>(Prerequisite: AA 112 or ACCT 101 or 101B or ENTR 101 or permission of director)</i> Accounting software program for a small business: set up records for a business, open accounts, enter transactions and print end-of-period reports. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Formerly offered as BA 157]	
ACCT 158	Intermediate Quickbooks	1
	<i>(Prerequisite: ACCT 157 or equivalent or permission of director)</i> Use project accounting for contractors/construction, inventory management, budgeting, cash flow and management reports and transferring Quickbooks data to tax software. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Formerly offered as BA 159]	
ACCT 170	Payroll Accounting	3
	<i>(Prerequisite: ACCT 101, BA 150 or permission of director)</i> Exposure to payroll accounting procedures and controls, tax and employment laws and tax reports that form core of payroll responsibilities.	
ACCT 180	Accounting Applications	3
	<i>(Prerequisite: ACCT 101, BA 150 or permission of director)</i> Complete accounting process simulations, manual practice sets and computerized practice sets to expand skill in performance of accounting functions. (ACCT 102 and 180 from current catalog are equivalent to ACCT 102 for 1999 and prior catalogs.)	

Course No.	Course Name	Credit Hours
ACCT 201	Intermediate Accounting I	4
	<i>(Prerequisite: ACCT 180 or permission of director)</i> Accounting theory, concepts, practical application, use of accounting data as basis for decisions by management, stockholders, creditors and other users of financial statements and accounting reports. Emphasis is on asset side of balance sheet.	
ACCT 202	Intermediate Accounting II	4
	<i>(Prerequisite: ACCT 201 or permission of director)</i> Accounting for current and long-term liabilities, capital stock transactions, dividends, retained earnings and cash flow statements and analysis.	
ACCT 240	Tax Accounting I	3
	<i>(Prerequisite: ACCT 101 or 101B or permission of director)</i> Fundamental characteristics of individual federal income taxes.	
ACCT 241	Tax Accounting II	3
	<i>(Prerequisite: ACCT 240 or permission of director)</i> Income tax aspects of corporations, partnerships, sub-chapter S corporations, fiduciaries, advanced concepts related to individual income taxes, tax planning and estate and gift taxation.	
ACCT 254	Electronic Spreadsheets	3
	<i>(Prerequisites: ACCT 102, BA 150 or permission of director)</i> Computer spreadsheets for accounting and business applications. (2 theory + 3 lab hours a week) Course fee: \$15	
ACCT 255	Computerized Accounting	3
	<i>(Prerequisites: ACCT 180 or permission of director)</i> Payroll, inventory control, accounts payable, accounts receivable and general ledger using computerized integrated business software. (2 theory + 3 lab hours a week) Course fee: \$15	
ACCT 256	Management Database Applications	1
	<i>(Prerequisites: ACCT 102, BA 150, CIS 157 and 158 or permission of director)</i> Accounting applications of databases. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5	
ACCT 260	Cost Accounting	3
	<i>(Prerequisite: ACCT 102 or permission of director)</i> Job order and process costing systems for construction and manufacturing.	
ACCT 270	Governmental Accounting	3
	<i>(Prerequisite: ACCT 102)</i> Fund accounting for governmental entities.	
ACCT 271	Auditing	3
	<i>(Prerequisite: ACCT 102 or permission of director)</i> Survey of auditing that includes audit standards, reports, professional ethics, legal liability, evidence accumulation, audit planning, internal control, transaction cycles, other engagements and operational auditing.	

Course No.	Course Name	Credit Hours
ACCT 280	Managerial Accounting	3
	<i>(Prerequisite: ACCT 102 or permission of director)</i> Expansion of students ability to use and interpret accounting information for decision making by management in planning and controlling business activities.	
ACCT 296	Accounting Topics	1-6
	<i>(Prerequisites: ACCT 101 and 102 or permission of director)</i> Current topics in accounting.	
ACCT 297	Special Problems	Variable
	<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
ACCT 298	Internship	4
	<i>(Prerequisites: ACCT 180 and permission of director)</i> Students work a minimum of 150 hours in a new job experience in accounting or training-related supervised work stations. Students are not paid for their work but are supervised jointly by TVI and the company. (1 theory + 9 lab hours a week)	
ACCT 299	Cooperative Education	4
	<i>(Prerequisites: ACCT 180 and permission of director)</i> Students work a minimum of 150 hours in a new job experience in accounting or training-related supervised work. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)	
ACHR 131	Refrigeration Fundamentals	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Includes fundamentals of refrigeration, including components, refrigerants and accessories and hands-on competencies. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 132	Basic Electricity	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents principles of electricity, measurements, safety, wiring procedures, schematics, components of basic circuits and principles and practices in electricity. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 133	Refrigerant Management	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Includes accepted practices and procedures of refrigerant handling, containment, safety, leak detection, evacuation, recovery and charging systems. Students take the EPA Universal CFC Certification exam. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	

Course No.	Course Name	Credit Hours
ACHR 134	Motors and Controls	2
	<i>(Pre- or corequisite: ACHR 132 or department approval)</i> Covers primary and control circuits in various applications, troubleshooting and components. Emphasizes attention to motors and their starting devices. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 135	Refrigeration Application	2
	<i>(Pre- or corequisite: ACHR 131 or department approval)</i> Reinforces system design, accessories, performance characteristics and problem diagnosis. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 136	Control Circuit Applications	2
	<i>(Pre- or corequisite: ACHR 134 or department approval)</i> Stresses electrical schematics, diagrams, troubleshooting of circuits and problem diagnosis. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 137	Code and Safety Requirements I	1
	<i>(Prerequisites: RDG 099 or equivalent or department approval)</i> Investigates code requirements and safety practices related to refrigeration. Code and safety searches are an integral part of this course.	
ACHR 151	Air Conditioning	2
	<i>(Prerequisites: ACHR 135, 136 or department approval)</i> Covers installation, service and maintenance of air conditioning and heat pump systems. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 152	Air Conditioning Control	2
	<i>(Prerequisites: ACHR 135, 136 or department approval)</i> Covers installation, service and maintenance of air conditioning and heat pump systems controls. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 153	Gas Heating Systems	2
	<i>(Prerequisites: ACHR 135, 136 or department approval)</i> Covers installation, service and maintenance of forced fossil fuel furnaces. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 154	Gas Heating Control Systems	2
	<i>(Prerequisites: ACHR 135, 136 or department approval)</i> Emphasizes forced fossil fuel furnace controls installation and maintenance. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 155	Commercial Refrigeration	2
	<i>(Prerequisites: ACHR 135, 136 or department approval)</i> Covers installation, service and maintenance of reach-in refrigeration systems. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)	
ACHR 156	System Design	3
	Includes air properties, air movement, heat load calculations and water as a secondary refrigerant . (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours a term)	

Course No.	Course Name	Credit Hours
ACHR 171L	Basic Refrigeration Maintenance	3
Introduces the types and components of refrigerators and air conditioners in this theory/lab course. Stresses evaporative coolers and preventive maintenance. Develops troubleshooting skills. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)		
ACHR 172L	Basic Air Conditioning, Heating and Refrigeration	3
Introduces basic equipment and service techniques in this theory/lab course. Emphasizes installation and troubleshooting of parallel compressor systems, energy management systems and preventive maintenance programs. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)		
ACHR 173L	Commercial Refrigeration	3
Introduces commercial refrigeration and ice machines in this theory/lab course. Stresses preventive maintenance. Develops simple servicing and troubleshooting skills. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)		
ACHR 210	Pumps and Valves	2
<i>(Prerequisites: ACHR 151, 152 and 154 or department approval)</i> Covers the types of valves and pumps used in hydronic systems, the sizing, selection and internal construction, disassembling, assembling and measurement of impellers. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
ACHR 211	Basic Hydronic Principles	2
<i>(Prerequisites: ACHR 151, 152 and 154 or department approval)</i> Covers basic flow, nomenclature, physical principles of typical systems, piping layout and design. Investigates actual operating systems. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
ACHR 212	Hot Water and Steam Generation Systems	2
<i>(Prerequisites: ACHR 210, 211 or department approval)</i> Includes types, design, construction of typical systems, sizing and controls of units. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
ACHR 213	Controls I	2
<i>(Prerequisites: ACHR 210, 211 or department approval)</i> Stresses pneumatic, electronic and electric control systems with computer interfacing. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
ACHR 214	Chilled Water Systems	2
<i>(Prerequisites: ACHR 210, 211 or department approval)</i> Emphasizes commercial and industrial chilled water systems. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
ACHR 215	Controls II	2
<i>(Prerequisite: ACHR 213 or department approval)</i> Covers advanced building controls using interfaced operating monitor equipment. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		

Course No.	Course Name	Credit Hours
ACHR 216	Code and Safety Requirements II	1
<i>(Prerequisite: ACHR 137 or department approval)</i> Investigates code requirements and safety practices related to refrigeration. Code and safety searches are an integral part of this course.		
AFAS 010	Leadership Laboratory	1
Focus on progressively challenging leadership and management experiences: physical fitness activities; lectures on military policies, ethics, customs and courtesies, military drill and ceremonies. Required enrollment for admission into cadet corps.		
AFAS 120	The Foundation of the United States Air Force	1
<i>(Corequisite: AFAS 010. Concurrent enrollment in leadership laboratory required for cadet status)</i> Introduction to the United States Air Force, providing an overview of the basic characteristics, missions and organization of the USAF. Meets once weekly. <i>Fall only.</i>		
AFAS 121	The Foundation of the United States Air Force	1
<i>(Corequisite: AFAS 010. Concurrent enrollment in leadership laboratory required for cadet status)</i> Introduction to the United States Air Force, providing an overview of the basic characteristics, missions and organization of the USAF. Meets once weekly. <i>Spring only.</i>		
AFAS 250	The Evolution of USAF Air and Space Power	1
<i>(Corequisite: AFAS 010. Concurrent enrollment in leadership laboratory required for cadet status)</i> Introduction of topics on Air Force heritage and leaders; introduction to air and space power through examination of competencies and functions; and continued application of communication skills. Course is designed to instill an appreciation of the development and employment of air power and to motivate sophomore students to make transition from AFROTC cadet to AFROTC officer candidate. In addition, aspects of the AS 200 course begin to prepare students for field training exercises. Meets once weekly. <i>Fall only.</i>		
AFAS 251	The Evolution of USAF Air and Space Power	1
<i>(Corequisite: AFAS 010. Concurrent enrollment in leadership laboratory required for cadet status)</i> Introduction of topics on Air Force heritage and leaders; introduction to air and space power through examination of competencies and functions; and continued application of communication skills. Course is designed to instill an appreciation of the development and employment of air power and to motivate sophomore students to make transition from AFROTC cadet to AFROTC officer candidate. In addition, aspects of the AS 200 course begin to prepare students for field training exercises. Meets once weekly. <i>Spring only.</i>		

Course No.	Course Name	Credit Hours
ANTH 101	Introduction to Anthropology	3
	<i>(Prerequisite: RDG 100)</i> Survey of the breadth of anthropology, including archaeology, biological anthropology, cultural anthropology, and linguistic anthropology.	
ANTH 110	Language, Culture and the Human Animal	3
	<i>(Prerequisite: RDG 100)</i> Introduction to linguistics and anthropology. Study of the systematic nature of language: phonology, morphology, syntax, semantics and pragmatics.	
ANTH 120	Archaeology: Discovering Our Past	3
	<i>(Prerequisite: RDG 100)</i> Overview of archaeological theory and methods including data from selected archaeological sites in various geographical areas and from different time periods.	
ANTH 130	Cultures of the World	3
	<i>(Prerequisite: RDG 100)</i> Basic concepts of cultural anthropology. Survey of cultural characteristics illustrated by a variety of existing cultures in their native environments with societal examples in cross-cultural comparisons.	
ANTH 150	Evolutionary Anthropology	3
	<i>(Prerequisite: RDG 100)</i> Introduction to biological anthropology and concepts of organic evolution. Emphasis on fossil history of primates, prehistory of man and human genetics within a paleoecological context, modern primate behavior and its relevance to human evolution.	
ANTH 222	Ancient Mesoamerica	3
	<i>(Prerequisite: RDG 100)</i> Introduction to Mesoamerican archaeology from the earliest inhabitants through the Aztec period. Emphasis on cultural processes and dynamics of cultural evolution.	
ANTH 231	North American Indians	3
	<i>(Prerequisite: RDG 100)</i> Comparative ethnology of North American Indian tribes on geographic, ecologic and cultural bases. Exploration of North American Indian life before European influence and the diversity of cultures existing on the North American continent.	
ANTH 238	Cultures of the Southwest	3
	<i>(Prerequisite: RDG 100)</i> Survey of cultural patterns of the American Southwest from A.D. 1600 to the present. Interactions of the ethnic groups populating the Southwest.	
ANTH 255	Southwestern Archaeology	3
	<i>(Prerequisite: RDG 100)</i> Interpretations and dynamics of southwestern archaeology from the time of the earliest inhabitants until European contact.	
ANTH 265	The Anthropology of Drugs	3
	<i>(Prerequisite: RDG 100)</i> Examination of the nature and use of mind-altering drugs from a cross-cultural perspective, including study of the varieties and effects	

Course No.	Course Name	Credit Hours
	of such drugs around the world, socio-cultural contexts and functions of drugs, the social control of drugs, and the political economy of world trade in both licit and illicit drugs.	
ANTH 296	Topics in Anthropology	3-6
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
ARDR 107L	Architectural Drafting I	4
	<i>(Pre- or corequisite: ARDR 109)</i> Introduces the fundamentals of architectural graphic representation as the foundation of all A/E drafting courses. Explores basic common assembly systems and introduces schedules. (1 theory + 9 lab hours a week) Course fee: \$15. Note: Students must provide their own drafting kits.	
ARDR 108	Architectural Mathematics	3
	<i>(Prerequisite: MATH 100B)</i> Covers basic concepts of geometry and trigonometry with an emphasis on architectural and engineering applications and calculator use. Students must provide a full-function scientific calculator with a ten-digit display. (2 theory + 3 lab hours a week)	
ARDR 109	Building Materials and Methods I	3
	<i>(Prerequisites: ENG 100 and MATH 100B or equivalent)</i> Study construction systems, sub-systems and components. Emphasizes foundations, light wood frame and masonry construction. A construction hard hat is required. (2 theory + 3 lab hours a week)	
ARDR 113L	Site Analysis	2
	<i>(Prerequisite: ARDR 180)</i> Examines analytical factors of site design, such as orientation and view, sound and light intrusions, contours and grading, drainage and foliage. Introduces planning aspects of site size. (5 lab hours a week)	
ARDR 115	Building Materials and Methods II	3
	<i>(Prerequisites: ARDR 109, ARDR 180)</i> Continues ARDR 109 with emphasis on steel, concrete, roofing, glazing and cladding systems. (2 theory + 3 lab hour a week)	
ARDR 119L	Architectural CAD Drafting III	7
	<i>(Prerequisites: ARDR 107L, 115, 213, 214L)</i> Continues ARDR 107L, students perform design development and produce representative architectural construction and detail drawings using graphic, dimensioning and notation systems. (3 theory + 12 lab hours a week) Course fee: \$15	
ARDR 180	Fundamentals of Computer-Assisted Drafting	3
	<i>(Prerequisite: CP 176 or equivalent)</i> Introduces the fundamentals of computer assisted drafting using AutoCAD. (2 theory + 3 lab hours a week) Course fee: \$15	
ARDR 181	Intermediate Computer-Assisted Drafting	3
	<i>(Prerequisite: ARDR 180)</i> Includes topics on customized menu-making, attribute editing and extracting and the drawing of isometrics using AutoCAD. (2 theory + 3 lab hours a week) Course fee: \$15	

Course No.	Course Name	Credit Hours
ARDR 182L	Advanced Computer-Assisted Drafting	2
	<i>(Prerequisites: ARDR 213, 214L)</i> Includes 3D CAD focusing on wireframe and solid modeling, working paper space, UDS and third-party applications of AutoCAD. (5 lab hours a week) Course fee: \$15	
ARDR 183	Fundamentals of Microstation CAD	3
	<i>(Prerequisite: CP 176 or equivalent)</i> Introduces the fundamentals of computer-assisted drafting using Intergraph's Microstation CAD. (2 theory + 3 lab hours a week) Course fee: \$15	
ARDR 184	Intermediate Microstation CAD	3
	<i>(Prerequisite: ARDR 183)</i> Continues ARDR 183 and Intergraph's Microstation software, topics include user interface development and introduction to three-dimensional design. (2 theory + 3 lab hours a week) Course fee: \$15	
ARDR 201	Structural Systems Analysis	4
	<i>(Prerequisite: ARDR 119L; corequisite: ARDR 203L)</i> Introduces structural design and graphics in wood, steel and concrete and elementary beam design problems. (4 theory + 1 lab hour a week)	
ARDR 203L	Structural Systems CAD Drafting	5
	<i>(Prerequisite: ARDR 119L; corequisite: ARDR 201)</i> Develop representative drawings in steel, concrete and/or wood structural systems. (1 theory + 12 lab hours a week) Course fee: \$15	
ARDR 208L	Architectural Design	2
	<i>(Prerequisite: ARDR 107L)</i> Presents design principles, theories, methods and process. Facilitates learning through student designed projects that provide direct experience and role playing as designers communicating with clients and using sketching and single point perspective. (5 lab hours a week) Course fee: \$15	
ARDR 212L	Mechanical/Electrical Systems CAD Drafting	5
	<i>(Prerequisite: ARDR 119L; corequisite: ARDR 215)</i> Review of conventional drafting methods of mechanical and electrical systems including overlaying electrical, heating, ventilation and plumbing systems on architectural views. Develop engineering drawings using engineering graphic skills. (1 theory + 12 lab hours a week) Course fee: \$15	
ARDR 213	CAD Analysis	4
	<i>(Corequisite: ARDR 214L)</i> Applies beginning to advanced CAD concepts and commands to the production and coordination of A/E construction drawings. (4 theory + 1 lab hour a week)	
ARDR 214L	Architectural CAD Drafting II	7
	<i>(Prerequisite: ARDR 180; corequisite: ARDR 213)</i> Develop representative construction drawings using CAD software commonly employed in the A/E industry. (3 theory + 12 lab hours a week) Course fee: \$15	

Course No.	Course Name	Credit Hours
ARDR 215	Mechanical/Electrical Systems Analysis	4
	<i>(Prerequisite: ARDR 119L; corequisite: ARDR 212L)</i> Study general theory and layout information and code requirements for non-residential systems. Includes lighting, plumbing and air conditioning. (4 theory + 1 lab hour a week)	
ARDR 221L	Architectural/Engineering Drafting Seminar	1
	<i>(Pre- or corequisites: ARDR 119L, 182L)</i> Develop a resume and present a cumulative portfolio to a review committee. Examines needs, requirements, personnel procedures, expectations of employers and trends of the professional community. Is taken in the student's last semester. (3 lab hours a week)	
ARDR 275	Design Applications for Interiors	3
	<i>(Prerequisite: ENG 100 or equivalent)</i> Introduces basic color systems and psychology, light and lighting, space planning, code applications of finish selections, fabrics and furniture styles. (2 theory + 3 lab hours a week)	
ARDR 296	Topics	1-7
	<i>(Prerequisite: permission of program chair)</i> Topics offered depend on requests from the community and available instructors.	
ARDR 297	Special Problems	1-7
	<i>(Prerequisite: permission of program chair)</i> The student and instructor define a specific problem in the area of the student's interest and directly related to the program. The student develops and executes a solution using analytical and drafting techniques. An oral presentation may be required.	
ARDR 298	Internship	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate, defined training program. The position is not paid.	
ARDR 299	Cooperative Education	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate, defined training program. The position is paid.	
ART 101	Introduction to Art	3
	Introduction to concepts of visual arts: the language of form and media of artistic expression. Possible museum exhibition attendance.	
ART 106	Drawing I	3
	<i>(Recommended: ART 101)</i> Exploration of basic drawing concepts with dry and wet media: still life, landscape, portraiture or the figure. Course fee: \$25.	
ART 121	Two-Dimensional Design	3
	<i>(Recommended: ART 101 and ART 106)</i> Emphasis on visual awareness through direct experience with visual form: elements of line, shape, value, texture, color theory, space and volume, painting principles and visual vocabulary. Course fee: \$25.	

Course No.	Course Name	Credit Hours
ART 122	Three-Dimensional Design	3
<i>(Prerequisite: ART 106 and ART 121)</i> Concepts, techniques, processes and vocabulary involved in working in the third dimension. A variety of media and issues of space, form, mass and volume, line, texture, scale, proportion and the making of objects and spatial contexts. Course fee: \$25.		
ART 201	History of Art I	3
Survey of Near Eastern, Egyptian, Greek, Roman, early Christian, Byzantine, early Medieval, Romanesque and Gothic art and architecture. <i>Fall, summer only.</i>		
ART 202	History of Art II	3
Survey of Italian and Northern Renaissance, Baroque, Rococo and 19 th century Western European painting, sculpture and architecture. <i>Spring, summer only.</i>		
ART 205	Drawing II	3
<i>(Prerequisite: Art 106)</i> Continuation of ART 106, offering further concentration on basic drawing concepts with greater emphasis on descriptive and perceptual drawing skills using wet and dry media and color. Aspects of experimental drawing, still life, landscape, portraiture, and the figure in environmental contexts and in motion. Course fee: \$25.		
ART 250	Modern Art	3
Survey of major figures, movements, and stylistic developments in western art from 1850 to the present.		
ART 251	Art of the American Southwest	3
Study of interrelationships of three southwestern cultures emphasizing major forms of expression in pottery, textiles, jewelry, architecture, painting, and photography.		
ART 260	Architectural History: Ancient through Modern	3
Survey of the history of Western architecture from the pyramid to the post-modernist house; technological, stylistic, and functional characteristics of monuments within their cultural contexts.		
ART 296	Topics in Art	3
<i>(Prerequisites: ART 106 and ART 121 or permission of instructor)</i> Various topics. See Schedule of Classes.		
ASTR 101	Introduction to Astronomy I	3
<i>(Prerequisite: RDG 100. Recommended: Math 100B)</i> Descriptive and historical introduction to the science of astronomy focusing on the solar system including the sun, planets, comets, and meteors.		
ASTR 102	Introduction to Astronomy II	3
<i>(Prerequisites: RDG 100 and Math 100B)</i> Exploration of life cycles of stars and stellar systems and the structure of the universe. Study of the births, lives, and deaths of stars; the nature of the Milky Way galaxy, and current concepts on cosmology and the large-scale structure of the universe.		

Course No.	Course Name	Credit Hours
ASTR 111L	Astronomy Laboratory	1
<i>(Pre- or corequisite: ASTR 102)</i> Optional lab for investigation of the principles discussed in ASTR 102. Course fee: \$20.		
ASTR 296	Topics in Astronomy	3
<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.		
AUTC 121L	Brake Systems	4
<i>(Prerequisites: RDG 099, MATH 099 or equivalent or department approval)</i> Covers the principles governing hydraulic brake operation with the practical skills of diagnosis and repair of standard and anti-lock brakes. Includes lab activities on brake bleeding and adjustment, drum and rotor machining, master cylinder overhaul and brake caliper repair. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)		
AUTC 122L	Suspension and Alignment	4
<i>(Prerequisites: RDG 099, MATH 099 or equivalent or department approval)</i> Covers system repairs and adjustments on a variety of modern automobile suspension types. Includes strut replacement, wheel alignment and tire balancing, steering gear repair, and rebuilding of common suspension components. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)		
AUTC 123L	Manual Transmissions	4
<i>(Prerequisites: RDG 099, MATH 099 or equivalent or department approval)</i> Addresses fundamentals of design and operation of front and rear drive manual transmissions, differentials and drive line components. Activities include disassembly, measurement, inspection and reassembly of various transmissions in the car and on the bench. (2 theory + 6 lab hours a week = 30 theory + 90 lab hours a term).		
AUTC 126L	Automotive Electrical	4
<i>(Prerequisites: RDG 099, MATH 099 or equivalent or department approval)</i> Presents critical troubleshooting skills necessary for identifying and correcting problems found in automotive electrical/electronic systems are presented. Includes DVOM and analog meter use, voltage drop testing, wiring schematic interpretation and electrical diagnostic routines. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)		
AUTC 131L	Engine Repair	4
<i>(Prerequisites: RDG 099, MATH 099 or equivalent or department approval)</i> Covers internal combustion engine theory, engine overhaul procedures and precision tool measuring. Includes practice of essential engine testing skills and identification of needed repairs along with removal and replacement of engines. (2 theory + 6 lab hours a week = 30 theory + 90 lab hours a term)		
AUTC 132L	Automatic Transmissions	4
<i>(Prerequisites: AUTC 126L, RDG 099, MATH 099 or equivalent or department approval)</i> Reviews the fundamentals of design and operation of automatic transmissions and transaxles, servicing, and proper repair		

procedures are reviewed. Includes performing pump and clutch repair, valve body overhaul and gear replacement on a variety of transmissions. (2 theory + 6 lab hours a week = 30 theory + 90 lab hours a term)

AUTC 133L Automotive Electronics 4
(Prerequisite: AUTC 126L or department approval)
Builds on lessons in AUTC 126L. Covers testing and diagnostic skills in more complex automotive electronic systems. Includes lighting circuits, body computers and sensors, use of lab scopes and scan tools and supplemental restraint systems (SRS). (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)

AUTC 134L Air Conditioning and Heating 3
(Prerequisite: AUTC 126L or department approval)
Covers testing, evacuating, and charging air conditioning systems while maintaining an awareness of potential environmental concerns caused by automotive refrigerants as well as cooling and heating diagnosis, climate control trouble shooting, and component repair. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

AUTC 170 Transportation Trades Machining 3
Includes the practices of basic machine shop repair as they relate to gasoline and diesel engines, safety, proper use of hand and special tools, how to set up and use the lathe, mill and drill press. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

AUTC 172 Air Care Inspector 1
Includes the procedures for becoming a certified air care inspector for the City of Albuquerque Vehicle Pollution Management program along with city and federal regulations governing air pollution and emissions inspections. (7.5 theory + 30 lab hours a term)

AUTC 174L Alternative Fuels 2
(Prerequisites: AUTC 221L, 222L, 223L or equivalent or ASE certification in engine performance) Reviews diagnosis, repair and conversions for compressed natural gas (CNG) and liquefied petroleum gas (LPG) fueled light and medium vehicles. Includes personal and environmental safety, LPG/CNG fuel handling and air/fuel management. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)

AUTC 175L Service Fundamentals 4
Introduces essential shop skills including safety products, tool identification and use, under-car and under-hood servicing, repair information retrieval, and proper use and care of equipment. Students perform basic service operations to prepare them as basic service technicians. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)

AUTC 221L Engine Performance I 4
(Prerequisites: AUTC 126L, 133L or department approval) Basic fuel and ignition systems along with early emission system designs with structured lab activities permit in-depth analysis of how these systems affect

driveability. Skills are developed in performance testing, diagnosis, and repair of engine systems. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)

AUTC 222L Engine Performance II 4
(Prerequisite: AUTC 221L or department approval) A follow-up course to Engine Performance I that examines fuel, ignition and emission devices in early generation computer controlled systems. Diagnostic skills and repair methods include throttle body fuel injection, electronic feedback carburetors and distributor ignition (DI). (2 theory + 6 lab hours a week = 30 theory + 90 lab hours a term)

AUTC 223L Engine Performance III 4
(Prerequisite: AUTC 222L or department approval) Presents current production automobile and light truck computerized engine management systems. Includes operation, trouble code analysis, diagnostic routines and proper repair procedures for electronic ignition (EI), port fuel injection, and emission devices. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)

AUTC 296 Special Topics 1-6
(Prerequisite: department approval) Various problems and current automotive subjects are presented.

BA 101 Introduction to Quality Management 1
Concepts and theories of quality improvement. (5 weeks)

BA 102 Fundamentals of Continuous Quality Improvement (CQI) 1
Data gathering for process improvements and organizational culture change. (5 weeks)

BA 103 Quality Tools 1
Tools and techniques such as the cause and effect diagram, brainstorming, control charts and Pareto diagrams. (5 weeks)

BA 104 Team Building for Quality 1
Group process as it applies to team building. (5 weeks)

BA 105 Re-engineering for Quality 1
Tools and techniques to formulate action plans for process improvements. (5 weeks)

BA 106 Quality Leadership 1
Mission statement, goals and strategies to implement quality leadership throughout an organization. (5 weeks)

BA 111 Communications 2
Fundamentals of grammar, punctuation, oral communications and basic technical writing. (7.5 weeks)

BA 113 Introduction to Business 3
(Prerequisite: RDG 099 or equivalent) Structure of business, business activities, business opportunities and an understanding of the nature of the business world.

BA 117 Character Counts 1
Six pillars of Character Counts, Aspen Declaration and decision-making models. (5 weeks)

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 118	Character Counts in the Workplace	1
	Applications of the six pillars of character to the workplace. (5 weeks)	
BA 119	Character Counts and the Decision-making Model	1
	Character Counts decision-making model applications. (5 weeks)	
BA 121	Business English	3
	<i>(Prerequisites: RDG 099 or equivalent and ENG 099 or equivalent)</i> Principles of effective written communication in the business environment. Emphasizes correct grammar, punctuation, sentence structure and vocabulary.	
BA 122	Business Writing	3
	<i>(Prerequisites: BA 121 or permission of director; 25 wpm typing skill recommended)</i> Compose effective business letters, memos, and reports; develop oral presentation skills.	
BA 131	Business Interpersonal Skills	2
	Build interpersonal skills appropriate for the business environment. A unit covering team building/teamwork is required. Students participate in designing course content from the following topics: Time Management, Stress Management, Assertiveness, Goal Setting, Diversity in the Workplace, Self Esteem, Conflict Resolution, Problem Solving, Listening Skills, and Harassment. (7.5 weeks)	
BA 133	Principles of Management	3
	<i>(Prerequisites: RDG 099 or equivalent)</i> Management functions of planning, organizing, staffing, directing and controlling, human relations, group process, problem solving, team building and leadership skills.	
BA 150	Introduction to Computers	4
	<i>(Recommended prerequisite: 25 wpm typing skill)</i> Fundamental computer literacy which includes computer hardware and software with lecture and hands-on instruction. Computer applications include operating systems, word processing, spreadsheets, databases, e-mail and the Web. Course fee: \$15	
BA 211	Business Law	3
	<i>(Prerequisites: RDG 099 or equivalent and ENG 099 or equivalent)</i> Basic knowledge of law including contract law, Uniform Commercial Code, negotiable instruments and alternative dispute resolutions.	
BA 215	Money and Banking	3
	<i>(Prerequisite: ACCT 102 or ACCT 102B)</i> History, nature and function of money, methods of institutional control and theories of monetary policy.	
BA 222	Principles of Marketing	3
	<i>(Prerequisite: BA 113 or BA 133 or permission of director)</i> Total marketing concepts from product creation, pricing, promotion and distribution.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 251	Retail Merchandising	3
	<i>(Pre- or co-requisite: BA 222 or permission of director)</i> Methods and practice of retail merchandising including target market decisions, pricing, considering inventories, displaying layout and buying functions.	
BA 252	Customer Relations	3
	Relationship of self to customers, problem solving and communicating with customers, understanding customers, anticipating customers' needs and offering assistance.	
BA 253	Retailing	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Overview of retail industry including target market decisions, pricing, store locations, store organization, scheduling of work, loss prevention and safety and strategic planning.	
BA 255	Retail Supervision	3
	<i>(Prerequisite: BA 113 or 133)</i> Current supervisory concepts and practices of retail middle management.	
BA 260	Purchasing	3
	<i>(Prerequisite: ACCT 101, ACCT 101B or permission of director)</i> Public and private sector purchasing, value analysis, solicitation process, negotiation techniques, vendor selection, purchasing law, transportation considerations and inventory control practices.	
BA 270	Real Estate Law	3
	Fiduciary relationship between real estate agent and client, ownership rights, law of agency and law of contracts. Course has been certified to earn 30 hours of credit toward the New Mexico Real Estate License Exam.	
BA 271	Real Estate Practice	3
	<i>(Pre- or corequisite: BA 270)</i> Review of general real estate practice providing basic knowledge of the real estate business. Course has been certified to earn 30 hours of credit toward the New Mexico Real Estate License Exam.	
BA 272	Real Estate Appraisal	3
	<i>(Prerequisite: BA 271 or permission of instructor or director)</i> Methods for estimating the value of real property that includes real estate appraisal techniques of both land and improved residential property.	
BA 273	Real Estate Finance	3
	<i>(Prerequisite: BA 271)</i> Financing real property, money markets, sources of mortgage money, financial leverage, value of existing mortgage in the current market and purchaser qualification.	
BA 274	Real Estate Investment	3
	<i>(Prerequisites: BA 270, BA 271)</i> Principles for investment decisions, assessment of property potential and an awareness of the marketplace and the needs of the public.	
BA 275	Property Management	3
	Residential and commercial property management, marketing of services, market analysis, record-keeping, related laws, legal documents, property maintenance, employee relations, insurance, security and administration.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BA 276	New Mexico Real Estate Commission (NMREC) Mandatory Course	1
	Real estate licensees are updated about new legislation, NMREC problem areas, disciplinary hearings, rules and regulations, trust accounts, property management review, risk management, selected court cases, fiduciary responsibility, Real Estate Settlement Procedures Act, Americans with Disabilities Act and the Fair Housing Act. (5 weeks)	
BA 279	Uniform Standards of Professional Appraisal Practice	2
	Requirements for ethical behavior and competent performance by appraisers. (7.5 weeks)	
BA 280	Fair Housing Law	1
	Issues, regulations, practices and court cases related to fair housing. (5 weeks)	
BA 281	Americans with Disabilities Act and Related Handicap Discrimination Law	1
	Issues and guidelines affecting employment, construction and operation of business. (5 weeks)	
BA 282	Appraising the Single Family Residence	3
	<i>(Prerequisite: BA 272)</i> Techniques used to estimate the market value of single-family residential property.	
BA 283	Rules & Regulations of the New Mexico Real Estate Commission	1
	Current rules and regulations including the intent and the Real Estate Commission's interpretations. (5 weeks)	
BA 284	Sales	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Sales principles, demonstrating selling skills and promoting goods and services.	
BA 286	Advertising	3
	<i>(Prerequisite: BA 222 or permission of director)</i> Develop an advertising plan, select and schedule media, create budgets, design and produce advertisements and evaluate advertising effectiveness.	
BA 289	Strategic Planning	3
	Strategic planning as a tool for management to provide overall direction for organizations, interpretation of plans, gap analysis, organizational culture, value classification and strategic management in a global environment adapting to cultural differences.	
BA 295	Capstone Course	1
	Course acts as a transitional step from the academic to working world. Focus is on implementing skills needed to be a successful manager.	
BA 296	Business Topics	1-3
	Current topics in business.	
BA 297	Special Problems	Variable
	<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
	Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
BA 298	Internship	4
	<i>(Prerequisite: permission of director)</i> Students work a minimum of 150 hours at business or training-related supervised work stations. Students are not paid for their work but are supervised jointly by TVI and the company. (1 theory + 9 lab hours a week)	
BA 299	Cooperative Education	4
	<i>(Prerequisite: permission of director)</i> Students work a minimum of 150 hours at business or training-related supervised work stations. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)	
BA 299A	Cooperative Education I	1
	Students employed in an on-going governmental or non-governmental cooperative program enroll in this course for the first term of employment. Students must work a minimum of 40 hours to qualify for credit. Students are paid by the employers and are supervised jointly by TVI and the employer. (3 lab hours a week)	
BA 299B	Cooperative Education II	1
	<i>(Prerequisite: BA 299A)</i> Course is a continuation of BA 299A for students in their second term of cooperative education. (3 lab hours a week)	
BA 299C	Cooperative Education III	1
	<i>(Prerequisite: BA 299B)</i> Course is a continuation of BA 299A and BA 299B for students in their third term of cooperative education. (3 lab hours a week)	
BA 299D	Cooperative Education IV	1
	<i>(Prerequisite: BA 299C)</i> Course is a continuation of BA 299A, BA 299B and BA 299C for students in their fourth term of cooperative education. (3 lab hours a week)	
BANK 101	Principles of Banking	3
	Survey of major aspects of banking from the fundamentals of negotiable instruments to contemporary issues.	
BANK 103	Law and Banking Principles	3
	Banker's guide to law and legal issues with emphasis on the Uniform Commercial Code.	
BANK 105	Consumer Lending	3
	Regulations governing credit practices, loan processing, cross-selling and collections.	
BANK 107	Analyzing Financial Statements	3
	<i>(Prerequisite: ACCT 101A or ACCT 101)</i> Financial analysis and skills needed to assess a borrower's ability to repay loans.	
BANK 109	Bank Accounting	1
	<i>(Prerequisite: ACCT 101A or ACCT 101)</i> Describes accounting and reporting system specifically for commercial banks in the context of their special reporting requirements. (5 weeks)	

Course No.	Course Name	Credit Hours
BANK 111	Personal Financial Management	1
	Focus is budgeting and planning techniques on a personal level for eventual use in business situations. (5 weeks)	
BANK 115	Commercial Lending	3
	Covers technical side of commercial lending and important human relations skills.	
BANK 296	Financial Services Topics	1–3
	Current topics in financial services.	
BANK 297	Special Problems	Variable
	<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
BANK 298	Internship	4
	<i>(Prerequisites: ACCT 101 or ACCT 101B and BANK 101 or permission of director)</i> Students work a minimum of 150 hours in a new job experience in banking or training-related supervised workstations. Student trainees are not paid for their work but are supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)	
BANK 299	Cooperative Education	4
	<i>(Prerequisites: ACCT 101 or ACCT 101B and BANK 101 or permission of director)</i> Students work a minimum of 150 hours in a new job experience in banking or training-related supervised workstations. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)	
BGC 200	Digital Publishing	3
	<i>(Recommended prerequisite: BA 150)</i> Desktop publishing for print and Web, covering PostScript workflows, typography, printing and design history, plus basic design principles using PageMaker, QuarkXPress, FreeHand, Illustrator, PhotoShop and more. (2 theory + 3 lab hours a week) Course fee: \$15	
BGC 201	Advanced Digital Publishing	3
	<i>(Pre- or corequisite: BGC 200 or permission of director; recommended prerequisite: CIS 255)</i> Advanced concepts and production techniques for digital publishing for print and Web covering PDF workflow, practical graphic design techniques, link management and real world production. (2 theory + 3 lab hours a week) Course fee: \$15	
BGC 202	Digital Drawing	3
	<i>(Pre- or corequisite: BGC 200 or permission of director)</i> Advanced training in the design and production of printable artwork is offered in FreeHand and Illustrator. Focus is on production techniques for print and Web. (2 theory + 3 lab hours a week) Course fee: \$15	
BGC 203	Production Photoshop	3
	<i>(Pre- or corequisite: BGC 200 or permission of director; recommended prerequisite: CIS 262)</i> Design, artwork, halftones, duotones and separations in PhotoShop are	

Course No.	Course Name	Credit Hours
	presented. An introduction to Painter is optional. (2 theory + 3 lab hours a week) Course fee: \$15	
BGC 204	Digital Printing Production	3
	<i>(Pre- or corequisite: BGC 202, BGC 203, or permission of director)</i> Top end print production in a pure PostScript environment, utilizing a PDF workflow where possible, is covered. Preflight, image production, trapping and imposition are presented. (2 theory + 3 lab hours a week) Course fee: \$15	
BGC 296	Topics Course	1–3
	Current topics in business graphics and communication.	
BGC 297	Special Problems	Variable
	<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
BGC 298	Internship	4
	<i>(Prerequisites: BGC 201, 202, 203 and permission of director)</i> Students work a minimum of 150 hours at office-related supervised workstations. Students are not paid for their work but are supervised jointly by TVI and the employer. The student and employer determine the weekly contact hours. (1 theory + 9 lab hours a week)	
BGC 299	Cooperative Education	4
	<i>(Prerequisites: BGC 201, 202, 203 and permission of director)</i> Students work a minimum of 150 hours in a new office-related position. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. The student and employer determine the weekly contact hours. (1 theory + 9 lab hours a week)	
BIO 100	Introduction to Biology	3
	<i>(Prerequisites: MATH 099 and RDG 099 or equivalent)</i> Explores basic concepts through taxonomy, anatomy, cells, and tissues, while developing a sense of scale, microscope skill, observation, and diagramming. Complements, but does not replace CHEM 100. (3 theory hours + 1 lab hour a week) Course fee: \$10	
BIO 110	Biology for Non-Majors	3
	<i>(Prerequisite: RDG 100)</i> Survey of biological principles and current topics for non-biologists or liberal arts students: cellular and molecular biology, microbiology, human genetics, ecology, complexity theory, and animal behavior.	
BIO 111	Environmental Science	3
	<i>(Prerequisite: RDG 100)</i> Study of the environment, including basic ecology, a comparison of scientific approaches and world views with respect to ecology and the environment, relationship of humans to the environment, and solutions to local, regional, and global environmental problems.	

Course No.	Course Name	Credit Hours
BIO 111L	Environmental Science Laboratory 1 (Prerequisite: RDG 100) Optional lab for investigation of the principles discussed in BIO 111; analysis of water, soil and air pollutants. Moderately strenuous field trips to special interest sites may be scheduled outside regular laboratory hours. Course fee: \$20.	
BIO 112L	Biology for Non-Majors Laboratory (Prerequisite: RDG 100. Pre- or Corequisite: BIO 110) Optional lab with focus on use of microscopes, culturing bacteria, chemical analysis of biomolecules, plant and animal behavior. Course fee: \$20.	1
BIO 121/121L	Principles of Biology I (Prerequisite: RDG 100. Recommended: MATH 100B and CHEM 111) Basic principles of biology for students wishing to pursue majors in the sciences. Study of cellular level processes including biological chemistry, cell metabolism, photosynthesis, control and transmission of hereditary materials, and nucleic acid structure and function. Emphasis on critical thinking skills and scientific methodology. Required enrollment in 3-hour lecture and 3-hour lab. Course fee: \$20.	4
BIO 122/122L	Principles of Biology II (Prerequisite: BIO 121/121L) Continuation of the concepts developed in BIO 121/121L. Organism-level processes: taxonomy, comparative anatomy and physiology of plants and animals with emphases on evolutionary trends, embryology, behavior and ecology, and the development of scientific reasoning with an evolutionary perspective. Required enrollment in a 3-hour lecture and a 3-hour lab. Course fee: \$20.	4
BIO 123	Biology for Health Sciences (Prerequisite: RDG 100. Recommended: MATH 100B and either CHEM 111, BIO 100 or SCIE 100) Principles of cell biology, cell chemistry, genetics, and organismic biology with an emphasis on human systems.	3
BIO 124L	Biology for Health Sciences Laboratory (Pre- or corequisite: BIO 123) Exercises and demonstrations related to cell biology, biochemical processes and genetics.	1
BIO 136	Human Anatomy and Physiology for Non-Majors (Prerequisite: RDG 100. Recommended: BIO 100 or CHEM 100) One-semester examination of the structure (anatomy) and function (physiology) of the human body. Investigation of molecular, cellular, tissue and organ levels, and study of organ systems.	3
BIO 139L	Human Anatomy and Physiology for Non Majors Laboratory (Pre- or corequisite: BIO 136) Lab exercises on concepts presented in BIO 136, including histological study, biochemical processes, mammal organ dissections, and use of models to illustrate anatomical arrangement. Course fee: \$20.	1

Course No.	Course Name	Credit Hours
BIO 219	Principles of Cell Biology (Prerequisites: BIO 121/121L and 122/122L and either CHEM 111/112L or 121/121L) Cell structure and cellular processes, including structure and function of membranes, the cytoskeleton, the nucleus, DNA replication, gene expression, energy usage and production, metabolism, cell receptors, intercellular communication, and cancer biology. Fall only.	3
BIO 221	Introductory Genetics (Prerequisite: BIO 123/124L or 121/121L or permission of instructor. Corequisite: BIO 222) Structure, function, and transmission of hereditary factors. Fall, spring only.	3
BIO 222	Introductory Genetics Problems (Corequisite: BIO 221) Recitation and problem-solving techniques in genetic analysis related to BIO 221. CR/NC only. Fall, spring only.	1
BIO 223L	Introductory Genetics Laboratory (Pre- or corequisites: BIO 221 and 222) Lab exercises using fruit flies and lower organisms to illustrate the principles introduced in BIO 221. Course fee: \$20. Fall, spring only.	1
BIO 224/224L	Southwestern Natural History (Prerequisite: RDG 100) Study of the natural history and identification of southwestern flora and fauna. Required enrollment in a 3-hour lecture and a 3-hour lab. Course fee: \$20. Summer, fall only.	4
BIO 237	Human Anatomy and Physiology I (Prerequisites: Either BIO 123/124L or 121/121L and either CHEM 111/112L or 121/121L) Integrated study of human structure and function of the integumentary, skeletal, muscular, and nervous systems.	3
BIO 238	Human Anatomy and Physiology II (Prerequisite: BIO 237) Continuation of BIO 237, covering structure and function of the cardiovascular, respiratory, digestive, urinary, reproductive, and endocrine systems.	3
BIO 239	Microbiology (Prerequisites: Either BIO 123/124L or BIO 121/121L and either CHEM 111/112L or 121/121L. Corequisite: BIO 239L) Concepts of microbiology, host-parasite relationships, infection, and immunity.	3
BIO 239L	Microbiology Laboratory (Prerequisites: BIO 115L taken prior to Summer 1993 or either BIO 123/124L or 121/121L and either CHEM 111/112L or 121/121L. Corequisite: BIO 239) Investigation of a variety of techniques designed to facilitate the growth, identification, and control of microorganisms. Course fee: \$20.	1
BIO 240	Pathophysiology I (Prerequisites: BIO 237, 238, 239, 239L, 247L, 248L) Introduction to human pathophysiology. Examination of changes that occur in the human body when normal structure and/or function is altered; focus on building a basic understanding of pathophysiology for nursing, pharmacy and other health science students. Fall only.	3

Course No.	Course Name	Credit Hours
BIO 241	Pathophysiology II	3
	<i>(Prerequisite: Successful completion of BIO 240)</i> Continuation of BIO 240. Examination of pathophysiological processes as they occur across the lifespan. <i>Spring only.</i>	
BIO 247L	Human Anatomy and Physiology I Laboratory	1
	<i>(Prerequisites: Either BIO 123/124L or 121/121L and either CHEM 111/112L or 121/121L. Pre- or corequisite: BIO 237)</i> Lab exercises on topics covered in BIO 237, including specimen dissection and cadaver study. Course fee: \$20.	
BIO 248L	Human Anatomy and Physiology II Laboratory	1
	<i>(Prerequisites: Either BIO 123/124L or 121/121L and either CHEM 111/112L or 121/121L. Pre- or corequisite: BIO 238)</i> Lab exercises in anatomy and physiology to complement BIO 238, including specimen dissection and cadaver study. Course fee: \$20.	
BIO 260/260L	Botany	4
	<i>(Prerequisite: BIO 122/122L)</i> Introduction to the diversity of the plant kingdom: Algae, Bryophyta, Pterophyta, Gymnosperms, and Angiosperms; covering plant morphology, anatomy, sexual, and asexual reproduction. Required enrollment in a 3-hour lecture and a 3-hour lab. Course fee: \$20.	
BIO 282	Parasites of the Southwest	3
	<i>(Prerequisites: RDG 100 and one previous college-level course in biology)</i> Study of basic animal parasitology focusing on organisms likely to be encountered by health workers in the southwestern United States.	
BIO 290	Biology of HIV	3
	<i>(Prerequisites: RDG 100 and one previous college-level course in biology)</i> Focus on HIV, the causative agent of AIDS, history and origin of the virus, basic immunology, epidemiology and viral biology; in-depth study of the AIDS virus, biological social ramifications of AIDS epidemic. <i>Spring only.</i>	
BIO 296	Topics in Biology	3
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
BKNG 101	Baking Theory I	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces baking fundamentals through scratch production of breads, sweet yeast goods and assorted pastries. Ingredient function and storage and basic math principles are included.	
BKNG 102	Food Service Math	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent, or department approval)</i> Analyzes applied math skills for sales, portioning and pricing of food products. Stresses cash register fundamentals.	
BKNG 103L	Breads	2
	<i>(Pre- or corequisite: BKNG 101; prerequisites: FSMG</i>	

Course No.	Course Name	Credit Hours
	<i>101A, 101B, RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Covers fundamentals of mixing and processing ingredients in a variety of pan, Pullman and hearth breads, rolls and buns. (5 lab hours a week = 75 lab hours a term)	
BKNG 104L	Sweet Yeast Goods	2
	<i>(Pre- or corequisite: BKNG 101; prerequisites: FSMG 101A, 101B, RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Includes retail production of donuts, sweet rolls, cinnamon rolls, coffee cake and danish, as well as portion control, safety techniques and costing skills. (5 lab hours a week = 75 lab hours a term)	
BKNG 105L	Cake Batters	2
	<i>(Pre- or corequisite: BKNG 101; prerequisites: FSMG 101A, 101B, RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents the processing of ingredients in a variety of cake batters, icings and fillings. Emphasis is on basic cake decorating skills, ingredient storage, proper formulation, and care and use of bakery equipment. (5 lab hours a week = 75 lab hours a term)	
BKNG 106L	Pies and Pastries	2
	<i>(Pre- or corequisite: BKNG 101; prerequisites: FSMG 101A, 101B, RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Stresses a variety of specialized pastries with emphasis on roll-in doughs and leavening agents. Stresses retail operations and merchandising. (5 lab hours a week = 75 lab hours a term)	
BKNG 111	Baking Theory II	3
	<i>(Prerequisites: BKNG 101, 102, 103L, 104L, 105L, 106L or department approval)</i> Covers the principles of Baking I with emphasis on baking chemistry and advanced production procedures. Covers international pastries and desserts with advanced decorating techniques.	
BKNG 112L	Yeast Doughs	2
	<i>(Pre- or corequisite: BKNG 111 or department approval)</i> Covers supervision, safety techniques and advanced production procedures of a variety of breads, sweet doughs and croissants. (5 lab hours a week = 75 lab hours a term)	
BKNG 113L	Advanced Cake Batters	2
	<i>(Pre- or corequisite: BKNG 111 or department approval)</i> Includes advanced production procedures of a variety of international cakes and tortes with emphasis on baking chemistry and safety as well as production of tiered, special-occasion and sculptured cakes and decorations. (5 lab hours a week = 75 lab hours a term)	
BKNG 114L	Pastries and Cookies	2
	<i>(Pre- or corequisite: BKNG 111 or department approval)</i> Presents advanced production techniques of international pastries, pies and petit fours. Emphasizes the seven different methods of cookie production. (5 lab hours a week = 75 lab hours a term)	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
BKNG 115L	Icings and Fillings	2
	<i>(Pre- or corequisite: BKNG 111 or department approval)</i> Presents advanced production techniques of international buttercreams, fondants, ganache and marzipan. (5 lab hours a week = 75 lab hours a term)	
BKNG 296	Special Topics	1-6
	<i>(Prerequisite: department approval)</i> Food Service Management and Quantity Foods students pursue specialized needs. The class may be taken as independent or directed study.	
BT 177L	Metal Framing	3
	<i>(Prerequisite: CARP 103 or department approval)</i> Study and apply commercial and residential construction design, Uniform Building Code requirements, job site and tool safety and erection of metal buildings. (15 theory + 75 lab hours a term)	
BT 178	Remodeling	3
	Introduces hand and power tools and the safety measures associated with their use. OSHA regulations and job safety. Provides basic structural, electrical, plumbing and other typical remodeling repair principles and techniques. (15 theory + 75 lab hours a term)	
BT 179	Advanced Remodeling	3
	<i>(Prerequisite: BT 178 or department approval)</i> Provides information on job site safety, OSHA regulations, design and construction techniques for remodeling and additions to existing buildings. (15 theory + 75 lab hours a term)	
CARP 101	Carpentry Blueprint Reading I	4
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Includes lumber sizing, scaling, centering and triangle theory, interpretation of elevation drawings, floor plans, symbols, notations, dimensions and structural information.	
CARP 102	Foundations Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces safety and use of hand and power tools, site layout and various methods of concrete foundation construction.	
CARP 102L	Foundations Lab	2
	<i>(Pre- or corequisites: CARP 101, 102 or department approval)</i> Covers safety and use of hand and power tools are introduced. Includes site layout, footing, stemwall and concrete slab construction. (5 lab hours a week = 75 lab hours a term)	
CARP 103	Framing Theory	1
	<i>(Prerequisites: CARP 101, 102 or department approval)</i> Covers the layout of floor, wall, ceiling and roof structural members, as well as blueprint reading and calculation of structural materials in accordance with the Uniform Building Code (UBC).	
CARP 103L	Framing Lab	2
	<i>(Pre- or corequisite: CARP 103 or department approval)</i> Introduces cutting and assembly of structural material	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
	for floor, wall, ceiling and roof systems in accordance with the UBC. Stresses safety. (5 lab hours a week = 75 lab hours a term)	
CARP 104	Exteriors Theory	1
	<i>(Pre- or corequisites: CARP 101, 102, 103 or department approval)</i> Provides instruction in the installation of exterior wall and roof finishes, windows and exterior doors in accordance with the UBC.	
CARP 104L	Exteriors Lab	2
	<i>(Pre- or corequisite: CARP 104 or department approval)</i> Provides experience in installing exterior wall and roof finishes, windows and exterior doors in accordance with the UBC. (5 lab hours a week = 75 lab hours a term)	
CARP 111	Carpentry Blueprint Reading II	4
	<i>(Prerequisites: CARP 101, 102, 102L, 103, 103L, 104, 104L or department approval)</i> Introduces blueprint applications for residential homes, multiple family dwellings and commercial buildings, along with material estimating and volume measure.	
CARP 112	Interior Finish Theory	1
	<i>(Pre- or corequisite: CARP 111 or department approval)</i> Focuses on the UBC requirements for the installation of thermal insulation and drywall. Covers methods of painting, trimming and finishing interiors.	
CARP 112L	Interior Finish Lab	2
	<i>(Pre- or corequisite: CARP 112 or department approval)</i> Provides hands-on activities in a safety-focused environment: insulation techniques, drywall installation, taping and texture of drywall, painting, trimwork and finishing of the interiors of residential and commercial buildings. (5 lab hours a week = 75 lab hours a term)	
CARP 113	Cabinet-making and Millwork Theory	1
	<i>(Pre- or corequisite: CARP 111 or department approval)</i> Covers design, layout and construction of wood cabinets.	
CARP 113L	Cabinet-making and Millwork Lab	2
	<i>(Pre- or corequisite: CARP 113 or department approval)</i> Provides hands-on experiences in the safe use of equipment and power tools used in the construction and finish of wooden cabinets. (5 lab hours a week = 75 lab hours a term)	
CARP 114	Carpentry Remodel Theory	1
	<i>(Pre- or corequisite: CARP 111 or department approval)</i> Covers Uniform Building Code requirements for remodeling an existing structure.	
CARP 114L	Carpentry Remodel Lab	2
	<i>(Pre- or corequisite: CARP 114 or department approval)</i> Offers hands-on experiences in the safe use of power equipment and problem solving in remodeling. (5 lab hours a week = 75 lab hours a term)	
CARP 170	Carpentry Fundamentals	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Covers safety and	

use of hand and power tools. Includes designing a project, estimating bills for materials, building and completing the project are covered. (1 theory + 6 lab hours a week = 15 theory + 90 lab hours a term)

CARP 171 Construction Trades Blueprint Reading 3

Focuses on reading and interpreting residential blueprints with emphasis on terminology, symbols, notations, scaling, dimensioning and drawing techniques. Reviews construction methods, materials, calculations for material take-off and estimates.

CARP 296 Special Topics 1-6
(Prerequisite: department approval) Includes an in-depth study of methods and advanced techniques.

CCAP 198 Commercial Carpentry Apprenticeship 40

(Prerequisite: current full-time employment in the carpentry industry or department approval) Consists of 600 hours of related classroom instruction covering orientation, safety, shop and trade math, commercial carpentry process for shop tools and equipment, supplies and materials, building systems, blueprint reading, concrete, specifications and code interpretation.

CDV 101 Parents and Young Children 3
Study of the interactions of parents and children and diverse family configuration throughout the life cycle. Summer only.

CDV 103 Pre-School Growth and Development 3
(Prerequisites: RDG 099, ENG 099) Examines the cognitive, physical and social-emotional development of the pre-school child. Requires observations in an appropriate setting.

CDV 105L Infant Growth and Development Theory and Lab 4
(Prerequisites: RDG 099, ENG 099) Examines the basic needs and growth factors of children with an emphasis on the prenatal period through 36 months. (This course replaces CDV 102 and CDV 102L) (3 theory + 3 lab hours per week)

CDV 106 Healthy Young Children 3
(Prerequisites: RDG 099, ENG 099) Provides an awareness of basic health and safety management procedures which contribute to the prevention of childhood illnesses. Emphasis on safe environments, child abuse and neglect and children's nutrition. Fall, spring only.

CDV 120 Introduction to CDA Training 2
(Prerequisites: RDG 099, ENG 099) Study of the history of CDA, the assessment system and competency standards. A review of the six competency and 13 functional areas as well as what is needed to complete the CDA through the direct assessment route. Presents clarification of the steps involved in preparation for CDA assessment.

CDV 120B 45-Hour Entry-level Course 3
Assist entry-level early care, education and family support individuals to advance their understanding and practice in the seven competency areas as defined by the State of New Mexico. The course provides opportunities for students to construct knowledge about children, families, communities and support systems through discussion, reflection and skill practice. This course does not require a high school diploma or GED.

CDV 124 Supervised Field Experience 1-5
(Pre- or corequisite: Director approval, CDV 120 and CDV 120B) Scheduled on-site experience that includes working with children at various early childhood setting, as well as home visitor and bilingual settings serving children birth through age six. Credential requires 480 documented clock hours. One credit equals 45 contact hours. The number of credit hours will be determined jointly by the program director and the student.

CDV 126 Childhood Growth and Development 3
(Prerequisites: RDG 099, ENG 099; corequisite: CDV 127L) Provides foundation for becoming an early childhood professional with knowledge of how young children develop and learn. Major developmental theories are integrated with all aspects of development including psycho-social, physical/motor, cognition, language and literacy. Course is recommended before other courses for ECME concentration.

CDV 127L Observing Young Children 1
(Corequisite: CDV 126) Observation in an approved early childhood setting to promote practical application of lecture and text material for CDV 126. (3 hours per week)

CDV 128 Early Childhood Learning Environments I 3
(Prerequisite: RDG 099, ENG 099) Presents the knowledge and skills needed to set up and maintain safe, healthy, multicultural, indoor and outdoor environments for children up to age 8, developing typically and atypically. Promotes good health, nutrition and prevention of diseases.

CDV 129C Practicum I 2
(Prerequisite: RDG 099, ENG 09) Students work in an approved FS or ECME setting to practice competencies learned through coursework and texts. (6 hours per week)

CDV 132 Emerging Literacy in Early Childhood 3
Provides basic knowledge for promoting young children's language, literacy, investigative and problem-solving activities. Emphasizes is in understanding of developmental stages and their implications for developmentally appropriate practice. Fall, summer only.

CDV 133L Introduction to Literacy in Childhood 4
Provides basic knowledge and methods for promoting children's language, literacy, investigative and problem

solving activities. The emphasis is on understanding developmental stages and their implications for methodologies that increase reading and language arts skills. A three hour weekly practicum experience in a school setting is required.

CDV 201 Middle Childhood Growth and Development 3

(Prerequisite: RDG 099, ENG 099) Presents the principles of growth and development for 6- to 11-year-old children in cognitive, physical and social-emotional areas. *Summer only.*

CDV 202 Adolescent Growth and Development 3

(Prerequisite: RDG 099, ENG 099) Examines the development and communication patterns of adolescents within the family setting. *Spring only.*

CDV 203C Practicum II 2

(Prerequisite: RDG 099, ENG 099) Work in an approved FS or ECME setting to practice competencies learned through coursework and texts. (Formerly *Early Childhood Practicum CDV 131C*) (6 hours per week)

CDV 204 Introduction to Classroom Learning 3

(Prerequisite: RDG 099, ENG 099) Introduces to educational psychology and learning. Emphasis is on practical application. *Spring only.*

CDV 206 Working with Special-Needs Children 3

(Prerequisite: RDG 099, ENG 099) Examines the characteristics and educational needs of exceptional children. Surveys definition, etiology and educational alternatives for each of the exceptionalities. (Formerly titled *Education of the Exceptional Person*) *Fall only.*

CDV 207 Management of Early Childhood Programs 3

(Prerequisites: RDG 099, ENG 099) Presents knowledge and skills to develop an effective early childhood program. Students examine staff responsibilities, program development, scheduling, behavioral observation and evaluation techniques.

CDV 209 Early Childhood Learning Environments II 3

(Prerequisites: RDG 099, ENG 099) Focuses on planning, analyzing and evaluating materials, equipment, activities and approaches for learning experiences for birth through third grade. Examines developmentally appropriate practices in curriculum planning. (Formerly titled *Developmentally Appropriate Practice*)

CDV 210 Guidance in Early Childhood 3

(Prerequisite: RDG 099, ENG 099) Covers positive guidance and discipline techniques; emphasis is on appropriate experiences for the development of autonomy, self-esteem and social competency. *Fall, spring only.*

CDV 212 Special Issues in Child and Family Development 3

(Prerequisite: *Must be in final term or have permission of program director; summer and fall graduates may enroll in spring term.*) Presents in an exit seminar a balance of research findings, theory and application. Focuses on critical contemporary issues in the field. Students complete a professional portfolio. *Spring only.*

CDV 215 Introduction to the Early Childhood Professions 4

Explores a variety of early childhood care and education programs in multicultural settings for typical and atypical children. Participate in a field experience at different sites serving children birth to three, three to five, and five to eight. (3 theory + 3 lab hours a week for 15 weeks) *Spring, summer only.*

CDV 216 Individual and Family Diversity 3

(Prerequisite: RDG 099, ENG 099) Focuses on individual and family in terms of social and community diversity. Variances including disabilities, ethnicity, gender and social class are addressed. *Fall, spring only.*

CDV 217 Diversity in Early Childhood Programs and Assessment 2

(Prerequisite: RDG 099, ENG 099) Focuses on appropriate programming and assessment of typical and atypical young children, the role of parents in designing programs, the role of assessment in designing curricula and the role of language and culture in assessment. *Fall, spring only.*

CDV 218 Strengthening Family Structures 3

(Prerequisite: RDG 099, ENG 099) View families from a structural perspective by being exposed to systems thinking . Explores how families are similar to and different from others in society, including biological and social systems. Strength-based perspective is studied and encouraged in practice. *Spring, summer only.*

CDV 219 Marriages and Families 3

(Prerequisite: RDG 099, ENG 099) Provides insights into contemporary marriage and family situations. Focus on decision making for better understanding of families and the broader society. *Fall, spring only.*

CDV 296 Topics 1-3

Various special topics in the field are offered as elective hours.

CDV 297 Independent Study 1-3

(Prerequisite: *program director approval*) A specific problem is defined and studied while working with the instructor.

CDV 299 Cooperative Education 1-3

(Prerequisite: *permission of director*) In cooperation with local employers, the student works for one term on a cooperative basis in an appropriate training program. The position is paid.

Course No.	Course Name	Credit Hours
CHEM 100	Basics of Chemistry	3
	(Recommended pre- or corequisite: Math 100A or equivalent) Focuses on the study of chemistry: the periodic table, chemical bonds and reactions, solutions and energy. Integrates applied math (metric system, unit analysis, significant figures), reading academic text and study skills. Provides essential background for CHEM 111, BIO 123 and BIO 136. (3 theory hours + 1 lab hour a week)	
CHEM 101	Concepts of Chemistry	3
	<i>(Prerequisite: ENG 100 or RDG 100)</i> Non-mathematical introduction to chemistry as it applies to the world, covering qualitative treatment of chemical and physical properties of matter, and topics of special interest. Not a preparatory class for other chemistry classes.	
CHEM 111	Introduction to Chemistry	3
	<i>(Prerequisites: RDG 100 and MATH 100A)</i> Qualitative and quantitative aspects of general chemistry: atomic and molecular structure, periodic table, acids and bases, mass relationships, solutions, and brief introduction to organic chemistry.	
CHEM 112L	Introduction to Chemistry Laboratory	1
	<i>(Pre- or corequisite: CHEM 111)</i> Three-hour lab. Experiments complementing CHEM 111. Course fee: \$20.	
CHEM 121/121L	General Chemistry I	4
	<i>(Prerequisites: RDG 100 and MATH 120)</i> First semester of a two-semester sequence for students in sciences, engineering or premed. Study of atomic and molecular structure, chemical periodicity, mass and energy relationships, and chemical reactions. Required enrollment in a 3-hour lecture and a 3-hour lab. Course fee: \$20.	
CHEM 122/122L	General Chemistry II	4
	<i>(Prerequisite: CHEM 121/121L within past three years and MATH 121)</i> Study of acids and bases, equilibrium, kinetics, thermodynamics, solubility, electro- and nuclear chemistry. Introduction to coordination and organic chemistry. Required enrollment in a 3-hour lecture and a 3-hour lab. Course fee: \$20.	
CHEM 212	Organic Chemistry and Biochemistry	4
	<i>(Prerequisite: CHEM 111/112L or 121/121L)</i> Introduction to organic and biochemistry for students in health or environmental occupations: survey of organic functional groups including chemistry of living organisms. Emphasis on medical aspects.	
CHEM 253/253L	Quantitative Analysis	5
	<i>(Prerequisite: CHEM 122/122L)</i> Theory and techniques of volumetric, gravimetric, potentiometric, chromatographic, and spectrophotometric analysis. Introduction to data-handling and statistics. Three one-hour lectures and six-hour lab. It is recommended that students complete CHEM 253L within two semesters of completing CHEM 122L. Course fee: \$40. <i>Fall only.</i>	

Course No.	Course Name	Credit Hours
CHEM 296	Topics in Chemistry	3–6
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
CIS 110	DOS Fundamentals	1
	<i>(Prerequisite: 25 wpm typing skill)</i> DOS commands, internal and external commands, directories, file management and batch files. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 151]	
CIS 120	WordPerfect for Windows	3
	<i>(Prerequisite: BA 150 or permission of director)</i> Word processing software using Windows with emphasis on functions and practical office applications. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 134]	
CIS 121	Word Fundamentals	1
	<i>(Prerequisite: knowledge of Windows recommended)</i> Create, edit, enhance and merge documents. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 163]	
CIS 123	Microsoft Word for Windows	3
	<i>(Prerequisite: BA 150 or permission of director)</i> Word processing using Microsoft Word for Windows with emphasis on functions and practical office applications. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 135]	
CIS 126	Desktop Publishing Using Word	1
	<i>(Prerequisites: knowledge of Word, BA 150 or permission of director)</i> Integrate Word graphics and text to produce newsletters. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 154]	
CIS 130	Microsoft Windows	1
	Basic elements of Windows with emphasis on software functions. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 150]	
CIS 131	Intermediate Windows	1
	<i>(Prerequisite: CIS 130 or permission of director)</i> Emphasis is on Windows interaction with hardware and software to optimally configure and customize computers. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 164]	
CIS 135	Windows NT Workstation	1
	<i>(Prerequisite CIS 130 or permission of director)</i> Introduction to managing Windows NT Workstation user accounts and groups to control access to files and other resources. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 162]	
CIS 140	PowerPoint Fundamentals	1
	<i>(Prerequisite: 25 wpm typing skill; knowledge of Windows recommended)</i> Basic text charts and graph charts. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 157]	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CIS 142	Presentation Graphics	3
<i>(Prerequisite: BA 150 or permission of director)</i> Hands-on experience in graphics presentation software which emphasizes charting, drawing, organizing and displaying images. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 257]		
CIS 143	MS Outlook	1
<i>(Prerequisite CIS 130 or permission of director)</i> Manage messages, appointments, contacts and tasks, as well as track activities (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5.		
CIS 145	Data Communications Essentials	3
<i>(Prerequisite BA 150)</i> A general understanding of data communications theory. Concepts include data communications networking terms, components and applications. [Previously offered as MMS 140]		
CIS 147	Introduction to Information Management	3
<i>(Prerequisite BA 150)</i> Provides a broad overview of important topics of information systems that are reviewed from the managerial point of view. [Previously offered as MMS 142]		
CIS 150	Excel Fundamentals	1
<i>(Prerequisite: 25 wpm typing skill; knowledge of Windows recommended)</i> Create, edit and enhance worksheets, format cells and basic formulas and charts. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 158]		
CIS 151	Intermediate Excel	1
<i>(Prerequisite: CIS 150 or permission of director)</i> Manage multiple worksheets and workbooks, manage data and design forms. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 166]		
CIS 152	Advanced Excel	1
<i>(Prerequisite: CIS 151 or permission of director)</i> Create pivot tables, use advanced data analysis techniques and use Excel with other programs. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 167]		
CIS 155	Access Fundamentals	1
<i>(Prerequisite: 25 wpm typing skill; knowledge of Windows recommended)</i> Create database tables, queries, forms and reports. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 159]		
CIS 156	Intermediate Access	1
<i>(Prerequisite: CIS 155 or permission of director)</i> Manage data, create special action queries and tools, add features to forms and add hyperlinks to database. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 168]		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CIS 157	Advanced Access	1
<i>(Prerequisite: CIS 156 or permission of director)</i> Create Access macros, create advanced reports, filter data using parameters and share databases. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 169]		
CIS 160	Introduction to Internet	1
<i>(Prerequisite: CIS 130 or permission of director)</i> Main features of the Internet that include e-mail, listserv, file transfer protocol (FTP) and World Wide Web browsers. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 160]		
CIS 164	Hypertext Markup Language (HTML)	1
<i>(Pre- or corequisites: CIS 130, CIS 160)</i> Students receive instruction in a format used for writing documents to be viewed with a World Wide Web browser. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 171]		
CIS 165	Web Construction Coding	1
<i>(Prerequisite: CIS 164 or permission of director)</i> Advanced HTML markup including styles and dynamic HTML. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 172]		
CIS 166	Dynamic Styles	1
<i>(Prerequisite: CIS 165 or permission of director)</i> Introduces techniques to let a Web page change itself once it is already loaded into the browser thereby improving response time and interactivity as well as controlling the layout of the page. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		
CIS 170	Introduction to Multimedia	3
<i>(Prerequisite: BA 150; knowledge of Windows recommended)</i> How text, graphics, sound, images and video come together in a multimedia program. Course fee: \$15 [Previously offered as MMS 170]		
CIS 180	Extensible Markup Language (XML)	1
<i>(Pre- or corequisite: CIS 164)</i> Rules for developing standardized markup languages and customizing tags in Extensible Markup Language that facilitate business applications of electronically developed documents are presented. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 177]		
CIS 181	Business Document Presentation	1
<i>(Prerequisite: CIS 180 or permission of director)</i> XML techniques to customize the format and presentation of business documents. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		
CIS 182	Validating Business Documents	1
<i>(Prerequisite: CIS 181 or permission of director)</i> XML techniques for collecting and managing data from web pages. Policies and practices to address customer privacy issues. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CIS 186	Project Management	1
<i>(Prerequisites: BA 150, CIS 130 or permission of director)</i> Planning, scheduling, managing and communicating project information. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 161]		
CIS 190	Beginning FrontPage	1
<i>(Prerequisite: CIS 160, knowledge of HTML recommended or permission of director)</i> Plan, create, publish and manage web sites using MS FrontPage Editor, Explorer and Image Composer. Develop and publish projects that include text, images, hyperlinks, forms, tables and frames. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 178]		
CIS 191	Intermediate FrontPage	1
<i>(Prerequisite: CIS 190 or permission of director)</i> Create advanced forms, database connectivity, advanced image mapping, e-commerce and secured transactions. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 179]		
CIS 201	Hardware and Software Administration	3
<i>(Prerequisites: BA 150, CIS 130)</i> Topics include computer viruses, utilities software, DOS and Windows operating systems, installation of boards and software, hardware components, troubleshooting, and disassembling/building a microcomputer system. (2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 201]		
CIS 210	Office Management Software	1
<i>(Prerequisite: BA 150 or permission of director)</i> Groupware is used to create, analyze and share information. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 156]		
CIS 220	Word Certification Prep	1
<i>(Prerequisite: CIS 123 or permission of director)</i> Continuation of CIS 123 designed to integrate all levels of Word and may assist in preparation for Word MOUS certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		
CIS 222	PowerPoint Certification Prep	1
<i>(Prerequisite: CIS 142 or permission of director)</i> Continuation of CIS 142 designed to integrate all levels of PowerPoint and may assist in preparation for PowerPoint MOUS certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		
CIS 224	Excel Certification Prep	1
<i>(Prerequisite: CIS 152 or permission of director)</i> Continuation of CIS 152 designed to integrate all levels of Excel and may assist in preparation for Excel MOUS certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CIS 226	Access Certification Prep	1
<i>(Prerequisite: CIS 157 or permission of director)</i> Continuation of CIS 157 designed to integrate all levels of Access and may assist in preparation for Access MOUS certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5		
CIS 230	Business Database Management	3
<i>(Prerequisites: CIS 147, CIS 157)</i> Topics include manipulating and designing internal databases and extracting and analyzing data for business decision making. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 252]		
CIS 237	Spreadsheet Macro Programming	1
<i>(Pre- or corequisite: ACCT 254)</i> Basic procedures for writing and running a macro are covered. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 261]		
CIS 240	Data Management	3
<i>(Prerequisite: CIS 145, CIS 130, CIS 110 or permission of director)</i> Hands-on experience on data communications networking. Applications include setting up user accounts, creating directories, login scripts and menus. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 240]		
CIS 241	NetWare Data Management	3
<i>(Prerequisites: CIS 145, CIS 130, CIS 110 or permission of director)</i> Hands-on experience in data communications: manage users, groups, login security, trustee assignments, file attributes, printing, login scripts and menus. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 241]		
CIS 243	Windows NT Server Systems Management	3
<i>(Prerequisites: CIS 145, CIS 130; pre- or corequisite: CIS 162 or permission of director)</i> Instruction on user and group management, client and server management and file sharing management. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 242]		
CIS 244	Windows NT TCP/IP Data Communications	3
<i>(Prerequisite: CIS 243 or permission of director)</i> TCP/IP, its implementation, the combination of Windows NT and its networking with TCP/IP suite of communication protocols. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 243]		
CIS 245	Windows NT Data Management	3
<i>(Prerequisite: CIS 243 or permission of director)</i> Networking protocols, protocol bindings, application layers, managing clients and servers, utilizing user and group accounts and profiles. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 244]		
CIS 250	Business Intranets/Extranets	3
<i>(Prerequisite: CIS 160 or permission of director)</i> Basic elements of planning, managing and using business		

intranets/extranets. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 250]

CIS 254 Business Operations Management 3
(Prerequisite: BA 150, CIS 130 or permission of director)
 Scheduling, production planning, and tracking and forecasting and managing conflicts. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 251]

CIS 255 Desktop Publishing 3
(Prerequisite: BA 150 or permission of director)
 Use of microcomputers to edit, typeset, design graphic production and page makeup. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 255]

CIS 256 Advanced Desktop Publishing 3
(Prerequisite: CIS 255)
 Hands-on experience in advanced desktop publishing including design techniques, downloading materials from the Internet and managing linkages to PostScript graphics and photos. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 256]

CIS 260 Beginning PhotoShop 1
(Prerequisite: CIS 130 or permission of director)
 Use selection tools to manipulate scanned images, slides and original artwork. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 173]

CIS 261 Intermediate PhotoShop 1
(Prerequisite: CIS 260 or permission of director)
 Use selection, painting tools, and color-correction tools to produce high quality digital images. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 174]

CIS 262 Advanced PhotoShop 1
(Prerequisite: CIS 261 or permission of director)
 Share files and prepare images for Web publications. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5 [Previously offered as MMS 175]

CIS 270 Macromedia Authorware 3
(Prerequisite: CIS 170 or permission of director)
 Interactive multimedia authoring program with emphasis on learning to combine a variety of media. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 270]

CIS 271 Macromedia Director 3
(Prerequisite: CIS 170 or permission of the director)
 Use of an interactive multimedia script language to create dynamic multimedia productions. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 271]

CIS 275 Adobe Premiere 3
(Prerequisite: CIS 270; pre- or corequisite: CIS 271)
 Selection and use of appropriate software and media to design and produce a cost effective multimedia presentation. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 272]

CIS 278 Business Web Site Design 3
(Prerequisites: CIS 160; recommended prerequisite: ECM 176 or permission of director)
 Uses fundamentals of communications, marketing, Internet, HTML and scripting to design basic elements of business web sites. (2 theory + 3 lab hours a week) Course fee: \$15 [Previously offered as MMS 276]

CIS 282 Advanced Windows NT Workstation 1
(Prerequisite: CIS 123 or permission of director)
 Configure and administer a Windows NT workstation. Intensive course is a continuation of CIS 123 designed to integrate all levels of NT workstation and may assist in preparation for MS NT Workstation certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee \$10

CIS 284 Advanced Network Essentials 1
(Prerequisite: CIS 145 or permission of director)
 Fundamental concepts, terms, models, and components are presented. Intensive course is a continuation of CIS 145 designed to integrate all aspects of network essentials and may assist in preparation for MS Network Essentials MCSE certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee \$10

CIS 285 Advanced Windows NT Server 1
(Prerequisite: CIS 243 or permission of director)
 Install, utilize utilities, define and test user profiles and policies and describe NT domain client and server. Intensive course is a continuation of CIS 243 designed to integrate all aspects of Windows NT Server and may assist in preparation for MS NT Server MCSE certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee \$10

CIS 287 Advanced TCP/IP 1
(Prerequisite: CIS 244 or permission of director)
 Advanced training on TCP/IP implementation. Intensive course is a continuation of CIS 244 designed to integrate all aspects of Windows TCP/IP and may assist in preparation for MS NT TCP/IP MCSE certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee \$10

CIS 288 Advanced Windows NT Server in the Enterprise 1
(Prerequisite: CIS 245 or permission of director)
 Advanced training on WAN for the enterprise. Intensive course is a continuation of CIS 245 designed to integrate all aspects of Windows NT Enterprise and may assist in preparation for MS NT Enterprise MCSE certification exam. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$10

CIS 296 Topics Course 1-3
 Current topics in computers. [Previously offered as MMS 296]

CIS 297 Special Problems Variable
(Prerequisite: permission of director)
 Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques appropriate to the problem. An oral

presentation may be required. [Previously offered as MMS 297]

CIS 298 Internship 4
(Prerequisites: ACCT 254, CIS 240 or CIS 241 or CIS 242 or CIS 147 and permission of director) Students work a minimum of 150 hours at business or training-related supervised work stations. Students are not paid for their work but are supervised jointly by TVI and the company. (1 theory + 9 lab hours a week) [Previously offered as MMS 298]

CIS 299 Cooperative Education 4
(Prerequisites: ACCT 254, CIS 240 or CIS 241 or CIS 242 and permission of director) Students work a minimum of 150 hours at business or training-related supervised work stations. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week) [Previously offered as MMS 299]

CJ 101 Criminal Law 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Includes the historical development, purposes and goals of common and statutory criminal laws which control actions in the criminal justice system.

CJ 102 Juvenile Law and Procedure 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Covers the juvenile court and justice system including the Children's Code and the Rules of Procedure.

CJ 103 Probation and Parole 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Presents the history, philosophy and legal basis governing investigation and supervision of juvenile offenders and adult violators placed on probation and parole.

CJ 104 Patrol Procedures 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Introduces basic patrol function and the problems faced by law enforcement officers.

CJ 107 Criminal Procedure 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Examines the method of enforcing the substantive criminal law. Includes the process of applying the established law, constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

CJ 108 Community-oriented Policing 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Examines the history of policing, problems with some of the earlier methods, a re-thinking of the basic role of police and using police for problem solving, improving relations with the public and crime prevention with the public.

CJ 109 Introduction to Security Services 3
 Includes history and development of security services, relationships to the legal process, career roles and operational processes in security operations. The course also helps homeowners make living quarters more secure and covers personal defense, report writing, emergency procedures and defensive driving.

CJ 111 Traffic Investigation and Enforcement 3
(Prerequisites: CJ 101, 104, 118 or department approval) Includes the study of traffic law enforcement and basic wreck checking. Progresses to the complete investigation of major accidents.

CJ 112 Criminal Investigation 3
(Prerequisites: CJ 101, 107, 118 or department approval) Presents basic criminal investigation from the preliminary investigation to final preparation and presentation in court.

CJ 113 Organized and White Collar Crime 3
(Prerequisites: CJ 101 and 107 or department approval) Covers illegal activities of people and institutions whose purpose is profit through legitimate gain through illegal enterprise.

CJ 116 Correctional Services 3
(Prerequisite: CJ 101 or department approval) Covers the duties and authorities of correctional officers, admission procedures, cell searches, lockdown, penal terminology, key control measures and operations, as well as court decisions dealing with corrections.

CJ 117 Public Policies and Strategies 3
(Prerequisite: CJ 108 or department approval) Presents issues and strategies involved in implementing community-oriented policing, including problems in standard operating procedures, police discretion, cadet training, in-service training, community input strategies, civilian review boards and problem solving.

CJ 118 Report Writing 3
(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval) Covers police reports, including writing and use of forms.

CJ 296 Special Topics 1-6
(Prerequisite: department approval) Includes the in-depth study of problems and the advanced techniques that criminal justice experts use in responding to them.

CJ 299 Cooperative Education 3
 The student is employed at an approved course-related work site and applies learned theory based on goals and objectives. The position is paid by the work-site employer.

CLA 101L Introduction to Laboratory Technique 3
(Prerequisites: Phlebotomy director approval, RDG 099 or equivalent, ENG 099 or equivalent, MATH 099 or equivalent; corequisite: CLA 102L) Introduces basic anatomy and physiology, medical terminology,

Course No.	Course Name	Credit Hours
	communications, laboratory math and laboratory techniques using applied theory in urinalysis, serology and microbiology. Stresses safety issues and practices. (2 theory and 3 lab hours a week for 15 weeks)	
CLA 102L	Basic Hematology/Chemistry	3
	(Corequisite: CLA 101L) Presents instrumentation and the concepts of quality control and calibration; basic techniques using applied theory in hematology and chemistry and the clinical significance of laboratory testing. (2 theory and 3.5 lab hours a week for 12 weeks)	
CLA 103C	Clinical Experience	5
	(Prerequisite: CLA 101L, CLA 102L) Perform urinalysis, serology, microbiology, hematology and chemistry procedures in affiliated medical laboratories. (15 hours per week for 15 weeks)	
CM 130	Construction Detailing	3
	Introduces basics of construction detailing and working drawing sets. (2 theory + 2.5 lab hours a week)	
CM 132L	Construction Graphics/Engineering Methods	3
	(Pre- or corequisite: CM 130 or department approval) Introduces principles and techniques of computer graphic applications used in the construction industry. (1 theory + 5 lab hours a week)	
CM 171	Construction Materials and Techniques	3
	(Pre- or corequisite: CM 130 or department approval) Includes plan reading, elementary construction techniques, materials and construction documents; emphasizes Uniform Building Code plan check. (3 theory hours a week)	
CM 175	General Contractor Preparation	3
	Covers licensing requirements, rules and regulations, business law, the UBC, construction methods and contract management. (3 theory hours a week)	
CM 201	Commercial Construction Theory	2
	(Prerequisite: CM 277 or department approval) Introduces commercial drawing sets, UBC, code compliance and cost per square foot analysis. Contrasts commercial and residential buildings. (2 theory hours a week)	
CM 201L	Commercial Construction Lab	3
	(Corequisite: CM 201 or department approval) Reviews costs, specifications, codes and personal safety. (7.5 lab hours a week)	
CM 256	Statics	3
	Introduces the use of graphic and algebraic formulas, static forces, equilibrium, moments, stress and strain. Covers beams and columns in wood, steel and concrete in reference to the UBC and institutional manuals. (3 theory hours a week)	
CM 257	Computer Estimating	3
	(Prerequisites: CM 171 and CP 176 or department approval) Complete cost estimates on buildings based on Construction Specifications Institute, formatted	

Course No.	Course Name	Credit Hours
	budgets, take-off techniques and computer estimating software. (1 theory + 5 lab hours a week)	
CM 261L	Construction Surveying	3
	(Pre- or corequisite: MATH 123 or department approval) Introduces the basic techniques and equipment used in surveying including tape, level and theodolite; leveling, distance and angle measurement; traversing; and note-keeping. (1 theory + 5 lab hours a week)	
CM 263	Construction Equipment and Methods	3
	(Corequisites: CM 277 and Math 120 or department approval) Presents large equipment used to move, lift and assemble components of commercial buildings. Covers earth work, concrete forms and construction, along with steel, wood and masonry methods, productivity, licenses and contract options. (3 theory hours a week)	
CM 277	Construction Management, Planning and Estimating	3
	(Pre- or corequisite: CM 257 or department approval) Includes introduction to construction processes, techniques for transforming contract documents and estimating into accurate project schedules. Surveys state-of-the-art scheduling techniques, including computer-assisted packages. Students break down a job into its basic tasks and reassemble it in a framework that controls time, work materials and related activities. (3 theory hours a week)	
CM 278	Mechanical and Electrical Blueprint Reading	2
	Introduces materials and equipment used in the electrical and mechanical systems of commercial building and associated codes and costs. (2 theory hours a week)	
CM 296	Topics	1–4
	(Prerequisite: permission of program chair) In-depth study of topics related to construction management.	
CM 297	Special Problems	2–4
	(Prerequisite: permission of program chair) The student and instructor define a specific problem directly related to the program in the area of the student's interest. The student develops and executes a solution using analytical and drafting techniques. An oral presentation may be required.	
CM 298	Internship	3
	(Prerequisite: permission of program chair) In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate defined training program. The position is not paid.	
CM 299	Cooperative Education	3
	(Prerequisite: permission of program chair) In cooperation with local industry, the student is employed at an approved course-related work site and applies learned theory based on goals and objectives for one term. The position is paid.	

Course No.	Course Name	Credit Hours
COMM 110	Mass Media and Society	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Examination of the roles media play in American society and their effects on other forms of communication.	
COMM 130	Public Speaking	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Theory and practical application. Focus on organizing and delivering, listening, and responding to various types of presentations.	
COMM 221	Interpersonal Communication Studies	3
	<i>(Prerequisites: RDG 100 and ENG 101)</i>	
	Overview of perception, emotions, nonverbal communication, language, listening, defensiveness, and relational conflict. Emphasis on developing communication styles and skills to enhance effectiveness in professional and personal relationships.	
COMM 223	Introduction to Nonverbal Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Examination of how the face and eyes, gestures, touch, voice, physical appearance, space, time, and environment communicate in personal and professional interactions.	
COMM 225	Small-Group Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Examination of group types, characteristics, dynamics, conflicts, norms, roles, leadership, problem solving, and decision making in small group processes.	
COMM 232	Business and Professional Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Emphasis on developing, organizing, and supporting ideas in interpersonal business encounters, groups, teams, meetings, interviews, and platform presentations.	
COMM 240	Organizational Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Study of communication networks, power and authority, manager/employee relationships, leadership, and interviewing in organizational contexts.	
COMM 270	Communication Studies for Teachers	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i>	
	Systems approach to classroom communication at any level, providing a means to analyze, develop, and facilitate effective communication.	
COMM 289	Listening	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101, and COMM 221)</i>	
	Investigation and application of current research in listening theory. Analysis of the appropriateness and applicability of five major types of listening in academic, business, media, and interpersonal contexts.	

Course No.	Course Name	Credit Hours
COMM 290	Gender Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101 and COMM 221)</i>	
	Focus on communication differences between men and women; implications and consequences of these differences and discussion of various strategies for change in business, media, educational, and intimate contexts.	
COMM 291	Intercultural Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101, and COMM 221)</i>	
	Focus on culture and the differences in communication values and styles, both verbal and nonverbal. Analysis of intercultural encounters and development of skills for more effective intercultural communication.	
COMM 292	Family Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101, and COMM 221)</i>	
	Examination of family systems theory, communication patterns, rules, roles, themes, power, intimacy, ethnicity, and conflict in families.	
COMM 293	Topics in Communication Studies	3
	<i>(Prerequisite: RDG 100. Recommended: ENG 101, and COMM 221)</i>	
	Various topics. See Schedule of Classes.	
COS 101	Orientation	2
	<i>(Prerequisites: ENG 100 or equivalent, RDG 100 or equivalent and MATH 100A or department approval)</i>	
	Introduces cosmetology. Presents theory in the areas of professional image, first aid and work ethics.	
COS 102	Sterilization/Sanitation Bacteriology Theory	1
	<i>(Pre- or corequisite: COS 101 or department approval)</i>	
	Presents related theory applied to preparation, procedures, products, materials and implements, methods of sanitation and sterilization, chemical agents, types and classifications of bacteria, bacterial growth and infections.	
COS 102L	Sterilization/Sanitation/ Bacteriology Lab	1
	<i>(Pre- or corequisite: COS 102 or department approval)</i>	
	Presents basic skills in salon safety, preparation, procedures and practice, selection of products, materials and implements, methods of sanitation and prevention of bacterial growth and infection. (2.5 lab hours a week = 37.5 lab hours a term) Course fee: \$50	
COS 103	Shampoo/Rinses/ Scalp Treatment Theory	1
	<i>(Pre- or corequisite: COS 102, 102L or department approval)</i>	
	Includes anatomy, physiology, products, materials and implements related to hair analysis, hair and scalp disorders and treatments, related chemistry, client record keeping and safety.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
COS 103L	Shampoo/Rinses/ Scalp Treatment Lab	1
	<i>(Pre- or corequisites: COS 102, 102L, 103 or department approval) Focuses on safety, preparation, procedures and practice related to hair analysis, treatment of hair and scalp disorders and client record keeping. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 104	Chemical Rearranging Theory	1
	<i>(Pre- or corequisites: COS 103, 103L or department approval) Introduces anatomy, physiology, preparation, procedures, products, materials and implements related to hair analysis, applied chemistry, client consultation and record keeping.</i>	
COS 104L	Chemical Rearranging Lab	1
	<i>(Pre- or corequisites: COS 103, 103L, 104 or department approval) Presents basic skills development in safety, preparation, procedures and practices, products, materials and implements, hair analysis, related chemistry, hair cutting, hair styling, care of wigs and hair pieces, client consulting and recommendations and record keeping. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 105	Cutting/Hairstyling Theory	1
	<i>(Pre- or corequisites: COS 104, 104L or department approval) Introduces anatomy, physiology, preparation, products, materials and implements, hair analysis and client consultation, related chemistry, hair cutting, hair styling techniques, client consultation, recommendations, care of wigs and hair pieces and record keeping.</i>	
COS 105L	Cutting/Hairstyling Lab	1
	<i>(Pre- or corequisites: COS 104, 104L, 105 or department approval) Focuses on safety, preparation, procedures and practices, products, materials and implements, hair analysis, related chemistry, hair cutting, hair styling, care of wigs and hair pieces, client consulting and recommendations and record keeping. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 106	Hair Coloring Theory	1
	<i>(Pre- or corequisites: COS 105, 105L or department approval) Includes anatomy, physiology; preparation, procedures, products, implements; hair analysis and client consultation; related chemistry; temporary, semi-permanent and permanent hair coloring; bleaching, special effects, client consultation and recommendations and record keeping.</i>	
COS 106L	Hair Coloring Lab	1
	<i>(Pre- or corequisites: COS 105, 105L, 106 or department approval) Presents basic skill development related to safety, use of products, materials and implements, hair analysis and client consultation, related chemistry, semi-permanent and permanent applications, hair coloring and special effects techniques, problem solving and record keeping. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 107	Manicuring/Pedicuring Theory	1
	<i>(Pre- or corequisites: COS 106, 106L or department approval) Includes anatomy, physiology, preparation,</i>	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
	<i>procedures, products, materials and implements, massage, nail techniques, client consultation and recommendations, client record keeping and safety.</i>	
COS 107L	Manicuring/Pedicuring Lab	1
	<i>(Pre- or corequisites: COS 106, 106L, 107 or department approval) Includes basic skill development related to safety, preparation, procedures and practices, products, materials and implements, massage, nail techniques, client consultation and recommendations and record keeping. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 112	Facials Theory	1
	<i>(Prerequisites: COS 107, 107L or department approval) Includes anatomy, physiology, preparation, procedures, products, materials and implements, massage, facial treatments and makeup application, hair removal, eyelash techniques, light therapy, client consultation and recommendations, record keeping and safety.</i>	
COS 112L	Facials Lab	1
	<i>(Pre- or corequisite: COS 112 or department approval) Presents basic skill development in safety, preparation, procedures and practice, use of products, materials and implements, facial treatments and makeup application, use of specialized equipment and techniques, eyelash techniques, hair removal, client consultation and recommendations and record keeping. (2.5 lab hours a week = 37.5 lab hours a term) Course fee: 50</i>	
COS 113L	Sterilization/Sanitation/ Bacteriology Lab II	1
	<i>(Pre- or corequisites: COS 112, 112L, 113 or department approval) Continues basic application of sterilization, sanitation and bacteriology techniques in a supervised lab setting. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 114L	Shampoo/Rinses/ Scalp Treatments Lab II	1
	<i>(Pre- or corequisites: COS 113, 113L or department approval) Continues basic application of shampoo, rinses and scalp treatment techniques in a supervised lab setting. (2.5 lab hours a week = 37.5 lab hours a term)</i>	
COS 115L	Chemical Rearranging– Perms and Relaxers Lab II	2
	<i>(Pre- or corequisite: COS 114L or department approval) Continues basic application of chemical rearranging, perms and relaxers techniques in a salon setting. (5 lab hours a week = 75 lab hours a term)</i>	
COS 116L	Cutting/Coloring/ Hairstyling Lab II	3
	<i>(Pre- or corequisite: COS 115L or department approval) Continues basic application of hair cutting, coloring and styling techniques in a supervised lab setting. (7.5 lab hours a week = 112.5 lab hours a term)</i>	
COS 117L	Manicuring/Pedicuring Lab II	2
	<i>(Pre- or corequisite: COS 116L or department approval) Continues basic application of manicuring, pedicuring, massage and advanced nail techniques in a supervised lab setting. (5 lab hours a week = 75 lab hours a term)</i>	

Course No.	Course Name	Credit Hours
COS 201L	Chemical Rearranging– Perms and Relaxers Lab III	2
	<i>(Prerequisite: COS 117L or department approval)</i> Includes intermediate application of chemical rearranging, perms and relaxers in a supervised salon setting. (5 lab hours a week = 75 lab hours a term) Course fee: \$50	
COS 202L	Hair Cutting Lab III	2
	<i>(Pre- or corequisite: COS 201L or department approval)</i> Includes intermediate application of scissors, shears, razor and clippers, products, materials and implements in a supervised salon setting. (5 lab hours a week = 75 lab hours a term)	
COS 203L	Hair Coloring Lab III	1
	<i>(Pre- or corequisite: COS 202L or department approval)</i> Includes intermediate application of temporary, semi-permanent and permanent hair coloring techniques, bleaching, tinting, toning, frosting, special effects and problem solving in a supervised salon setting. (2.5 lab hours a week = 37.5 lab hours a term)	
COS 204L	Hairstyling Lab III	1
	<i>(Pre- or corequisite: COS 203L or department approval)</i> Includes intermediate application of wet styling, blow drying, finger waving, air waving, hair pressing, hair extensions, hair weaving, braiding and corn rowing techniques in a supervised salon setting. (2.5 lab hours a week = 37.5 lab hours a term)	
COS 205L	Facials/Manicuring/ Pedicuring Lab III	4
	<i>(Pre- or corequisite: COS 204L or department approval)</i> Includes intermediate application of massage, facial treatments and makeup applications, use of electric appliances, currents and specialized machines for treatments, artificial eyelashes, removal of unwanted hair, eyelash and brow tinting and light therapy techniques in a supervised salon setting. (10 lab hours a week = 150 lab hours a term)	
COS 211	State Laws/Regulations	1
	<i>(Prerequisite: COS 205L or department approval)</i> Includes state laws and regulations, professional image, employability skills, ethics, professional standards, State Board standards, job-seeking and retention skills, customer service, teamwork, problem solving and quality principles.	
COS 212	Salon Operation Theory	1
	<i>(Pre- or corequisite: COS 211 or department approval)</i> Includes opening a salon and business plan, written agreements, regulations, laws, salon operation, policies, practices, personnel, compensation, payroll deductions, use of telephone, advertising, retail and sales, client communication, public relations, insurance and salon safety.	
COS 212L	Salon Operation Lab (Externship)	3
	<i>(Pre- or corequisite: COS 212 or department approval)</i> In cooperation with a TVI-approved employer, exposes student to salon business and retail sales concepts as	

Course No.	Course Name	Credit Hours
	outlined in the State Board standards upon completion of 75 percent (1,243 hours) of the course of study. This externship may not exceed eight hours per day or one day per week. (7.5 lab hours a week = 112.5 lab hours a term) Course fee: \$50	
COS 213	Advanced Salon Theory	2
	<i>(Pre- or corequisites: COS 212, 212L or department approval)</i> Includes advanced theory applied to sterilization, sanitation, bacteriology, shampoo, rinses, scalp treatments, chemical rearranging, perms, relaxers, hair cutting, hair coloring, bleaching, hairstyling, facials, manicuring and pedicuring, community health issues, salon safety, problem solving and special projects.	
COS 213L	Advanced Salon Lab	5
	<i>(Pre- or corequisite: COS 213 or department approval)</i> Includes advanced application of safety, shampoo, rinses, scalp treatments, chemical rearranging, perms and relaxers, hair cutting, hair coloring, bleaching, hairstyling, facials, manicuring and pedicuring or other areas with minimal supervision in a salon setting. (12.5 lab hours a week = 187.5 lab hours a term)	
COS 214L	Hair Cutting Lab IV	2
	<i>(Pre- or corequisite: COS 201L, COS 202L or department approval)</i> Includes advanced application of scissors, shears, razor and clippers, products, materials and implements in a supervised salon setting. (5 lab hours a week = 75 lab hours a term)	
COS 215L	Hair Styling Lab IV	1
	<i>(Pre- or corequisite: COS 203L, COS 204L or department approval)</i> Includes advanced application of wet styling, blow drying, finger waving, air waving, hair pressing, hair extensions, hair weaving, braiding and corn rowing techniques in a supervised salon setting. (2.5 lab hours a week = 37.5 lab hours a term)	
COS 216L	Facials/Manicuring/ Pedicuring Lab IV	1
	<i>(Pre- or corequisite: COS 204L, COS 205L or department approval)</i> Includes advanced application of massage, facial treatments and makeup applications, use of electric appliances, currents and specialized machines for treatments, artificial eyelashes, removal of unwanted hair, eyelashes and eyebrow tinting and light therapy techniques in a supervised salon setting. (2.5 lab hours a week = 37.5 lab hours a term)	
CP 100	Introduction to Computer Programming	3
	<i>(Prerequisite: MATH 099 or equivalent)</i> Provides preparation for first-term Computing Technology and gives overview of computer systems. Includes flow-charting, logic, data processing concepts and programming in QBasic. (3 theory hours + 1 lab hour a week)	
CP 101L	ANSI COBOL	6
	<i>(Prerequisites: CP 103 and 105)</i> Write structured programming projects directly related to business and accounting applications. Uses a mainframe computer	

system, the projects are designed, coded, debugged and executed. (4 theory + 6 lab hours a week) Course fee: \$10

CP 103 Mathematics for Computer Programmers 4

(Prerequisite: MATH 100B) Covers algebra fundamentals along with selected applications in business and management math. Illustrates computerized math applications. (4 theory hours + 1 lab hour a week)

CP 105 Fundamentals of Computer Programming 6

(Prerequisites: RDG 99 and MATH 100B and CP 176; pre- or co-requisite ACCT 103) Includes computer vocabulary, operating system concepts, structured programming techniques, programming logic and control using BASIC. (4 theory + 6 lab hours a week) Course fee: \$10

CP 111L Advanced ANSI COBOL 6

(Prerequisite: CP 101L) Continues skill development using the ANSI COBOL language. Emphasizes sequential and indexed file processing, file maintenance, multi-dimensional table processing, sorts and interactive programming. (4 theory + 6 lab hours a week) Course fee: \$10

CP 113 Survey of Computer Animation 3

Progresses from traditional cel animation through building free-hand skills, use of paint software packages, digital media applications and an introduces 3D-computer animation. (2 theory + 3 lab hours a week)

CP 120 Mainframe/Mini Computer Operating Systems 3

(Prerequisite: CP 105) Introduces the operating systems on IBM mainframe and midrange computers. Includes VSE, JCL, MUSIC, and the AS/400 systems. (2 theory + 3 lab hours a week)

CP 132 Introduction to Web Scripting 3

(Prerequisites: CP 105 and CIS 165 or permission of director) Covers the fundamentals of the Common Gateway Interface (CGI) protocol and scripting languages, to include PERL and JavaScript. Uses compiled programs and introduces CGI security concerns. (2 theory + 3 lab hours a week)

CP 135 Advanced Web Scripting 3

(Prerequisite: CP 132) Continues skill development with focus on integrating scripting into Web designs and structures. Develops both client and server application, incorporating many advanced Web page development techniques. (2 theory + 3 lab hours a week)

CP 150 Data Structures 3

(Prerequisite: CP 105 or permission of director) Explores sequential, random, and indexed file structures, multi-dimensional arrays, structures, linked lists, stacks, queues, sorting, searching and other data structures. (2 theory + 3 lab hours a week)

CP 170 Techniques for Animation Text 3

(Prerequisites: ENG 101 and CP 177L or permission of director) Introduces concepts required to create a story element, with emphasis on animation applications including project board techniques, structure for the short application, use of screenwriting software, information on the direct wants and needs of production houses, and insights into legal aspects of the business. (2 theory + 3 lab hours a week)

CP 176 Introduction to Technology Computer Applications 4

(Recommended prerequisite: typing proficiency) Covers introductory computer hardware and software topics with a mix of lecture and hands-on instruction. Introduces operating systems (MS-DOS, Windows), software applications (word processing, spreadsheets) and database concepts with an emphasis on technology applications. (4 theory hours a week) Course fee: \$15

CP 177L Introduction to Computer Animation/Graphics 3

(Prerequisites: CP 176 and ART 106 or CP 113; pre- or corequisite: ART 121 or permission of director) Explores various topics desirable in industry. Reviewed are Windows 95, Lightwave 3D-animation software, modeling, texturing, lighting, animation and other bundled tools. Additional lab hours outside the regular class time are required. (2 theory + 3 lab hours a week) Course fee: \$15

CP 178L Computer Animation I 3

(Prerequisites: CP 177L and ART 121; pre- or corequisite: ART 122) Uses, extensively, Alias 3D computer animation software involving modeling, rendering, morphing, texture mapping, animation and image processing. Additional lab hours outside the regular class time are required. (2 theory + 3 lab hours a week)

CP 179 Computer Animation II 3

(Prerequisites: CP 178L and CIS 262 and ART 122 and CP 170) Explores advanced techniques such as inverse kinematics, constraints, character building, particle emission and dynamic forces. Emphasizes team project participation. Additional lab hours outside the regular class time are required. (2 theory + 3 lab hours a week) Course fee: \$15

CP 180 Computer Animation Strategies & Techniques 3

(Prerequisites: CP 177L and CIS 262 and ART 121; pre- or corequisite: ART 122) Expands the use of Lightwave 3D animation software to professional applications. Emphasizes insights into the work environment and employer expectations. Additional lab hours outside the regular class time are required. (2 theory + 3 lab hours a week)

Course No.	Course Name	Credit Hours
CP 181L	Advanced Alias/Wavefront Maya	3
	<i>(Prerequisite: CP 178L or permission of director)</i> Continues coverage of Maya from Alias/Wavefront, a high-end computer programs for character animation, scene design and simulation. Creates realistic characters and scenes, as well as a variety of special effects. Also covers basic operations of the SGI Workstation platform, MEL (Maya Embedded Language) scripting and techniques for professional-quality animation demos using Maya. (2 theory + 3 lab hours a week)	
CP 182	Networking Topologies/NOS Environments	3
	<i>(Prerequisite: CP 176 or permission of director)</i> Introduces building networks and running a network operating system. Uses the OSI model as a guide for study of cabling protocols, data link protocols (Ethernet, FDDI, ATM, etc.) and network protocols (IP and IPX). Introduces switches, bridges, gateways and routers. (2 theory + 3 lab hours a week)	
CP 183	Overview of Network Operating System Environments	3
	<i>(Prerequisite: CP 176 or permission of director)</i> Introduces installing and administering the most common microprocessor-based NOS environments (Novell, Windows NT, etc.). Students run these NOS systems on a variety of data link protocols and install and maintain devices for inter-network communication. (2 theory + 3 lab hours a week)	
CP 201L	Interactive Programming Techniques	3
	<i>(Prerequisites: CP 111L and 120)</i> Develop interactive business applications on the IBM mainframe in the VSE environment. Use command level CICS and VSAM file structures. (2 theory + 3 lab hours a week)	
CP 202L	Assembler Language Programming	6
	<i>(Prerequisites: CP 101L)</i> Introduces techniques necessary to write Assembler language programs on an IBM mainframe. (4 theory + 6 lab hours a week)	
CP 213	Database Concepts	3
	<i>(Prerequisite: CP 105 or 176 or permission of director)</i> Presents general concepts, organization and application of database systems. Introduces the use of database management on the microcomputer. Includes designing database; accessing, searching and updating files; and designing and producing printed reports. Read and interpret written and oral instructions of a technical nature. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 214L	Report Program Generator III/400	3
	<i>(Prerequisite: a programming language or permission of director)</i> Introduces the RPG III/400 programming language used in business organizations, focusing on the basic coding parameters. (2 theory + 3 lab hours a week)	

Course No.	Course Name	Credit Hours
CP 216L	Personal Computer Operating Systems	3
	<i>(Prerequisite: CP 105)</i> Introduces major PC operating systems. Includes MS-DOS, Windows, Windows 95 and UNIX. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 217L	Personal Computer Assembler Language	3
	<i>(Prerequisites: CP 105 and 216L)</i> Introduces assembler language programming using the microcomputer. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 218	Introduction to Client/Server Technology	3
	<i>(Prerequisite: CP 183)</i> Covers theory of client/server and models of distributed computing. Lab assignments in SQL, FTP, terminal emulation and cross-platform data-access are done on a PC LAN with DOS, Windows 95 and NT, as well as an AS/400 and ES-9000 mainframe. (2 theory + 3 lab hours a week)	
CP 220	Advanced Database Concepts	3
	<i>(Prerequisite: CP 213 or permission of director)</i> Continues CP 213 in a multi-user network environment with emphasis on relational databases, custom forms, intermediate report design, OLE objects, advanced queries, SQL, macros and incorporating Visual Basic within Access. (2 theory + 3 lab hours a week)	
CP 221	Introduction to Oracle: SQL and PL/SQL	3
	<i>(Prerequisite: CP 213 or permission of director)</i> Designs and creates database structures to store, retrieve, update and display data in a relational database with SQL language. Create PL/SQL blocks of application code that can be used for data management applications. (2 theory + 3 lab hours a week)	
CP 235	Programming in JAVA	3
	<i>(Prerequisite: CP 278B or 284 or permission of director)</i> Accelerated introduction to JAVA programming language. Covers fundamentals including class design and implementation, the AWT, exception handling, JAVA I/O, threads and event-driven programming for applets and applications. (2 theory + 3 lab hours a week)	
CP 236	Systems Life Cycle Analysis	3
	<i>(Prerequisites: ACCT 103 and CP 278A and 213 or permission of director)</i> Covers advanced structured techniques of systems analysis and design. Covers systems life cycle and several methods of analyzing existing systems. Apply techniques in analysis of sample and/or local systems. Emphasizes team project participation. (2 theory + 3 lab hours a week)	
CP 241	Local Area Network (LAN) Systems Manager	3
	<i>(Prerequisite: CP 176 or permission of director)</i> Introduces network systems management that includes a brief overview of network layouts and topology and creating workable directories, login scripts, user accounts and menus. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 258]	

Course No.	Course Name	Credit Hours
CP 242	LAN Management	3
	<i>(Prerequisite: CP 176 or permission of director)</i> Facilitates learning on the operation and security of a computer network using specific LAN software. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 262]	
CP 243	Advanced LAN Management	3
	<i>(Prerequisite: CP 242 or permission of director)</i> Facilitates an advanced network performance, troubleshooting and ways to optimize network performance. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 263]	
CP 251	Computer Game Development	3
	<i>(Prerequisite: CP 177L or CP 278B or permission of director)</i> Focuses on a variety of Visual C++ and DirectX game programming techniques. Focuses on Lightwave 3D, Adobe PhotoShop and various other software applications to produce the game graphics. Digital sound and music production as applicable. Participation in group meetings and field trips in support of the gaming project. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 260L	Open GL/Open Inventor	3
	<i>(Prerequisites: CP 278A and CP 177L or permission of director)</i> Covers use of graphics library interface that runs on a wide variety of platforms. Write graphics applications using the object-oriented 3D graphics developer tool kit. (2 theory + 3 lab hours a week)	
CP 261L	Image Processing	3
	<i>(Prerequisite: CP 278A or permission of director)</i> Use and apply PC and UNIX-based development environments. Includes applications on image processing, data manipulation and scientific visualization. (2 theory + 3 lab hours a week)	
CP 262	Video Editing/Post Production	3
	<i>(Prerequisite: CP 178L or permission of director)</i> Presents nonlinear videos editing techniques. Includes application on video and audio editing skills, compositing, special effects and broadcast quality production procedures. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 274L	Introduction to UNIX and WANs	3
	<i>(Prerequisites: CP 105 and 216L or permission of director)</i> Introduces UNIX with emphasis on running a network. Includes the UNIX command line, X-Windows and connection/connection-less networking schemes (TCP/IP and NFS). Introduces Wide Area Network data delivery and protocols. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 275	Advanced UNIX and WAN Administration	3
	<i>(Prerequisite: CP 274L or permission of director)</i> Build and customize a UNIX host in a network environment and administering it remotely. Covers remote access protocols (PPP, SLIP, etc.) and the mechanics of remote data delivery. (2 theory + 3 lab hours a week)	

Course No.	Course Name	Credit Hours
CP 278A	C++ Language Programming I	3
	<i>(Prerequisite: CP 105 or DDET 115L or a programming language or permission of director)</i> Covers C++ programming using microcomputers. Covers data types, variables, arithmetic, control statements, basic functions, pointers, arrays and structures. Not considered a beginning programming course. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously CP 175L]	
CP 278B	C++ Language Programming II	3
	<i>(Prerequisites: CP 278A or permission of director)</i> Continues coverage of C++ programming using microcomputers. Covers structures, enumerated data types, C++ function enhancements, classes and objects, inheritance and virtual functions. Is an advanced programming course. Course fee: \$10 (2 theory + 3 lab hours a week) [Previously CP 278]	
CP 280L	Advanced RPG III/400	3
	<i>(Prerequisite: CP 214L)</i> Continues CP 214L with emphasis on file processing and interactive techniques. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 281L	Object-Oriented C++ Programming	3
	<i>(Prerequisite: CP 278B or permission of director)</i> Covers advanced programming including stacks, queues, linked lists and other computer science problems. (2 theory + 3 lab hours a week) Course fee: \$10	
CP 284	Introduction to Visual Basic	3
	<i>(Prerequisite: CP 105 or a programming language or DDET 115L or permission of director)</i> Introduces the capabilities of the development environment and common programming techniques required to create simple, useful applications. (2 theory + 3 lab hours a week)	
CP 285	Troubleshooting Networks	3
	<i>(Prerequisite: CP 182 or permission of director)</i> Problems course. Students run a wide variety of applications over a network and apply troubleshooting techniques using software and LAN analyzing equipment. (2 theory + 3 lab hours a week)	
CP 286	Windows NT Server	3
	<i>(Prerequisites: CP 176 or permission of director)</i> Manage single or multiple domains, improve system security and data, and integrate and optimize a Windows NT Server. (2 theory + 3 lab hours a week) Course fee: \$10 [Previously offered as MMS 264]	
CP 287	Advanced Visual Basic with Client/Server Applications	3
	<i>(Prerequisite: CP284 or permission of director)</i> Construct advanced applications using Visual Basic with an emphasis on client/server development. (2 theory + 3 lab hours a week)	
CP 292	System Development	1
	<i>(Prerequisite: CP236 or CP 281L or permission of director)</i> Choosing one of three areas – mainframe/COBOL, C/C++, or database; propose, design, build, document, test and present/demonstrate and individual	

final project. The project must meet all items on a standard criteria list. Work under the guidance of a computer-programming instructor. Course can be replaced with approved cooperative education experience, with appropriate assessment from employer. (3 lab hours a week)

CP 293 Demo Reel Production 1
(Prerequisite: CP 262 or permission of director) Create a video demo reel. Reviews strategies for content, themes, packaging, editing, sound effects and presentation. Tailor demo reels to specific companies and areas of industry. Incorporates methods of job seeking and applications. (3 lab hours a week)

CP 295 Web Site Implementation 1
(Prerequisite: CP 135 or permission of director) Create a web site from conceptualization to implementation. Completed web site and portfolio will be presented to an academic team. (3 lab hours a week)

CP 296 Topics 1-6
(Prerequisite: permission of director) Topics vary based on the requests from the community and available software, hardware and instructors.

CP 297 Special Problems 1-6
(Prerequisite: permission of director) The student and instructor define a specific problem in the area of the student's interest and directly related to the program. The student develops and executes a solution using analytical techniques appropriate to the problem. An oral presentation may be required.

CP 298 Internship 3
(Prerequisite: permission of director) In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is not paid.

CP 299 Cooperative Education 3
(Prerequisite: permission of director) In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is paid.

CR 103L Machine Shorthand I 7
(Prerequisites: RDG 099 or equivalent and AA 101 and 102 or 35 wpm typing speed on five-minute timing; pre- or corequisite: CR 121) Keyboarding and computer-compatible, conflict-free machine shorthand theory are presented. (5 theory + 5 lab hours a week)

CR 104L Machine Shorthand II 7
(Prerequisites: CR 103L, CR 121, BA 121) Computer-compatible, conflict-free machine shorthand theory and vocabulary building are presented. Open-exit course. Students may advance to CR 210L after reaching three 60 wpm literary and three 80 wpm literary. Enrollment limited to 45 weeks or three terms. (5 theory + 5 lab hours a week)

CR 105 Keyboard Skill-building 2
(Prerequisite: AA 107 or 45 wpm typing speed on five-minute timing) Fulfills NCRA's keyboarding requirement of 60 net wpm with no more than five errors on two five-minute timed writings. (5 lab hours a week) Course fee: \$10

CR 121 Introduction to Court Reporting 3
 Overview of court reporting profession includes real-time writing in the courtroom, deposition, classroom, conventions and broadcasting and certification process, testing requirements and the NCRA organization, and skills testing.

CR 122 Word Power 1
 Strengthen vocabulary, study of the dictionary, pronunciation, word origins, prefixes and suffixes, root elements, dissecting words, and vocabulary words. (7.5 weeks)

CR 123 Punctuation for Court Reporters 3
 Fundamental rules for punctuating syntax. Presents verbatim English as found in courtroom transcripts and modifies the rules to accommodate this English.

CR 132 Medical Terminology and Anatomy 3
(Prerequisite: RDG 099 or equivalent) Study of medical terminology, using 350 Greek and Latin prefixes, suffixes, word roots, combining forms and human anatomy is presented through video and text.

CR 210L Machine Shorthand III 8
(Prerequisite: CR 104L) Covers vocabulary building, machine shorthand theory, on-the-job considerations, legal procedures, speed-building using testimony, literary and jury charge materials. Open-entry, open-exit course. Students may advance to CR 220L after reaching 100 wpm literary and testimony, and 120 wpm literary and testimony. Enrollment limited to 45 weeks or three terms. (5 theory + 10 lab hours a week)

CR 220L Machine Shorthand IV 8
(Prerequisites: CR 210L, CR 132) Medical terminology and dictation, vocabulary building and speed-building are emphasized in this open-entry, open-exit course. Students may advance to CR 230L after reaching three testimony, literary and jury charge at 140 wpm and 160 wpm. Enrollment limited to 45 weeks or three terms. (5 theory + 10 lab hours a week)

CR 230L Machine Shorthand V 8
(Prerequisite: CR 220L) Speed-building and vocabulary building are emphasized. Open-entry, open-exit course. Students must pass at least three 5-minute takes of literary at 180 wpm, three of jury charge at 200 wpm and three of testimony at 225 wpm, with a minimum of 96% accuracy and a transcription rate of at least 20 wpm. Enrollment limited to 45 weeks or three terms. (5 theory + 10 lab hours a week)

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CR 240	Legal Terminology	3
	Civil law, criminal law, the judicial system and Latin/legal terminologies. Course is occasionally offered through the Internet.	
CR 250L	Computer-Aided Transcription (CAT)	3
	<i>(Prerequisites: CR 104L, BA 150)</i> Production of transcripts on computer-aided transcription software. (2 theory + 3 lab hours a week) Course fee: \$10	
CR 251	Stenotranscription	3
	<i>(Prerequisites: CR 104L and BA 150 or approval of program chair)</i> Hands-on application using the computer, stenomachine and rapid-data entry software to produce a variety of medical, legal, corporate and police documents. (2 theory + 3 lab hours per week) Course fee: \$10	
CR 252	Medical/Legal Stenotranscription	2
	<i>(Prerequisite: CR 251)</i> Use of computer-aided transcription software and stenotranscription skills to transcribe legal and medical documents, correspondence, and instruments with correct formatting, punctuation, and spacing. (1 theory + 3 lab hours per week)	
CR 253	Litigation Support	2
	Scan and index documents and transcripts, create and maintain a legal-specific database and print images to CD. (4 theory hours per week for 7.5 weeks)	
CR 260	Court Reporting Procedures	3
	<i>(Prerequisites: CR 220L, CR 250L)</i> Depositions, administering oaths, handling exhibits, storing notes and applying ethics.	
CR 270	Speed-building/Test Preparation	3
	Students need a minimum speed of 180 wpm literary and 225 wpm testimony. Preparation course for the state certification exam. Students speed-build and take two-, three- and four-voice testimony. (2 theory + 3 lab hours per week)	
CR 296	Topics Course	1-3
	Current topics in court reporting and stenotranscription.	
CR 297	Special Problems	Variable
	<i>(Prerequisite: permission of program chair)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
CR 298	Internship	2
	<i>(Prerequisites: CR 250L, passage of two five-minute dictation takes at 200 wpm on testimony material and approval of program chair)</i> Arranged by program chair in student's final term. Students acquire a minimum of 75 clock hours of practical experience under the supervision of a certified shorthand reporter; a minimum of 40 hours spent in actual writing time. Intern is required to record and transcribe a 40-page saleable transcript.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
CR 298A	Internship	2
	<i>(Prerequisite: CR 251)</i> Arranged by program chair in student's final term. Students acquire a minimum of 75 supervised clock hours producing saleable transcripts for a medical office, hospital, legal office, corporate word processing department, police department or publishing firm.	
CR 299	Cooperative Education	4
	<i>(Prerequisite: CR 210L)</i> Students work a minimum of 150 hours in a paid training-related position. Student trainees are paid by the cooperating firm and are supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)	
CSCI 098	Computer Basics	2
	<i>(Half term)</i> Provides opportunities to develop beginning computer skills. Includes common word processing tasks and understanding computer system components. Introduces concepts used in many Adult and Developmental Education courses. (4 theory hours a week)	
CSCI 100	Basic Keyboarding/Computer Skills	3
	Emphasizes beginning keyboarding, computer concepts and basic word processing. Recommended for entry-level students. (3 theory hours + 1 lab hour a week)	
CSCI 101	Computer Literacy	4
	Skills approach to computer literacy, introducing computer hardware and software topics with a mixture of lecture and hands-on instruction: common user applications (e.g., word processing, spreadsheets, data bases), operating systems (e.g., Windows 3.1, Windows 95) and the basics of using networked computers (e.g., email and the Web). Typing proficiency useful but not required. Course fee: \$10.	
CSCI 151	Introduction to Computer Programming	4
	<i>(Prerequisite: MATH 121 with a grade of B or better and MATH 150)</i> Introduction to programming designed for those interested in programming as a career or as a useful problem-solving skill; the relationship between programming and problem solving, using programs written in C and C++. Course fee: \$10.	
CSCI 163	Intermediate Computer Literacy	3
	<i>(Prerequisite: CSCI 101 or permission of instructor)</i> Skills approach to creating graphics and Web documents; research using the Internet. Course fee: \$10.	
CSCI 296	Topics in Computer Science	3
	<i>(Prerequisite: RDG 100 and permission of instructor)</i> Various topics. See Schedule of Classes.	
CST 150	Introduction to Cultural Studies	3
	<i>(Prerequisite: RDG 100)</i> Survey of a range of contemporary topics in global perspective, including gender, race, class and ethnicity. Exploration of non-dominant cultures and non-traditional social issues.	

Course No.	Course Name	Credit Hours
CST 250 A, H, N, S	Ethnic Studies	3
	<i>(Prerequisite: RDG 100)</i> Investigation of present day perspectives and historical and social conditions which have shaped and affected the lives of a specific group of American people. Emphasis on how these groups create mosaic of philosophy, art and identity. <i>A: African American Studies; H: Chicano Studies; N: Native American Studies; S: Asian American Studies.</i>	
CST 296	Topics in Cultural Studies	3
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
CTRG 170L	Catering	10
	Prepares for a career in the field of food service catering. Covers basic knowledge and hands-on experience of how to plan, organize and set up catered functions. Includes basic knowledge of how to read and prepare recipes.	
DDET 102L	Manufacturing Methods	3
	<i>(Pre- or corequisite: ENG 101)</i> Introduces manufacturing methods including machining, fabrication, hot and cold metal working processes, assembly operations and quality assurance. Also introduces properties of materials as affected by manufacturing processes. (3 theory hours + 1 lab hour a week)	
DDET 104L	Introduction to Technical Drafting	4
	<i>(Prerequisite: MATH 120 or ACT math score of 23 or equivalent)</i> Introduces fundamental drafting techniques including care and use of drafting equipment, lettering, sketching, line weight, scaling and geometric construction. (3 theory + 3 lab hours a week)	
DDET 106L	Basic CADD	3
	<i>(Pre- or corequisite: DDET 104L or permission of program advisor)</i> Introduces microcomputer CADD hardware and software including format and execution of basic command verbs, creation, editing and saving of drawing files and generation of hard-copy output. (2 theory + 3 lab hours a week) Course fee: \$15	
DDET 111L	Mechanical Detailing	3
	<i>(Prerequisite: DDET 104L)</i> Introduces the development of detail drawings including layout, view selection, notation, dimensioning, ASME Y-14.5 tolerancing and revisions of mechanical parts. (2 theory + 3 lab hours a week)	
DDET 115L	Intermediate CADD	3
	<i>(Prerequisite: DDET 106L; pre- or corequisite: DDET 111L)</i> Continue use of CADD software in an applied situation. Includes advanced drawings with insertions, layering, auto dimensioning and constructing library files. (2 theory + 3 lab hours a week) Course fee: \$15	
DDET 116L	Basic Electronic Drafting	3
	<i>(Prerequisite: DDET 104L)</i> Presents electronic drafting fundamentals including symbolic representation of electronic components and devices, block and connection diagramming, cable drawings and circuit schematics. Includes basic electronics theory and mathematics applications. (2 theory + 3 lab hours a week)	

Course No.	Course Name	Credit Hours
DDET 201L	Mathematics of Mechanics	3
	<i>(Prerequisite: MATH 121 or 150)</i> Presents a graphical analysis of the relationships among points, lines and planes in space. Covers advanced applications of trigonometry to dynamic mechanisms and point locations. (2 theory + 3 lab hours a week)	
DDET 205L	Machine Design Layout	4
	<i>(Prerequisites: DDET 111L, 115L; pre- or corequisite: DDET 201L or MATH 123)</i> Apply machine design principles including fixed and removable fastening techniques, dimensioning and tolerancing for assembly; relational functions of bearings, gears, cams, belts, pulleys and shafts; and parts list development. Introduces force vectors and stress and strain. Layout formats, part searches and material specifications are made for each design. (3 theory + 3 lab hours a week)	
DDET 206L	Jig and Fixture Design	4
	<i>(Prerequisite: DDET 205L)</i> Focuses on science of three-dimensional location, clamping and holding of work for machining and assembly. Covers cams, levers, screwlocks, air and hydraulic devices. Students make various designs in the TVI machine shop. (3 theory + 3 lab hours a week)	
DDET 211L	Electromechanical Drafting	3
	<i>(Prerequisite: DDET 205L; pre-or corequisite: DDET 215L)</i> Includes the study, experimentation, design and drafting of electromechanical devices and systems. Covers principal components of hydraulic, pneumatic drive systems and control devices in a hands-on laboratory. A major design project is required. (1 theory + 5 lab hours a week)	
DDET 215L	Technical Computer Applications	3
	<i>(Prerequisite: DDET 115L)</i> Use the computer to solve engineering and related problems. Utilizes solid modeling for drawing, designing and engineering problem solving. (2 theory + 3 lab hours a week)	
DDET 216L	Dimensional Metrology	4
	<i>(Prerequisite: DDET 111L or MATH 112)</i> Make direct and indirect measurements to 50 millionths of an inch. Concentrate on linear and angular unit measurements. Uses equipment in electrical, decibel and PPM measurements. Includes SPC and CMM practicums. (3 theory + 3 lab hours a week)	
DDET 220L	Statics and Strengths of Materials	5
	<i>(Prerequisites: DDET 201L or MATH 123 and ENG 119)</i> Analyze distribution of forces as applied to strengths of materials. Evaluate mechanical properties of material are evaluated in laboratory conditions. (3 theory + 5 lab hours a week)	
DDET 284	Geometric Dimensioning and Tolerancing	3
	Covers the design and use of gauges, fixtures and tools for inspection using GD&T specifications to meet ASME-Y14.5 standards. (3 theory hours a week)	

Course No.	Course Name	Credit Hours
DDET 296	Topics	1-5
	<i>(Prerequisite: permission of program chair)</i> Topics offered depend on requests from the community and available instructors.	
DDET 297	Special Problems	2-5
	<i>(Prerequisite: permission of program chair)</i> The student and instructor define a specific problem directly related to the program in the area of the student's interest. The student develops and executes a solution using analytical and drafting techniques appropriate to the problem. An oral presentation may be required.	
DDET 298	Internship	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is not paid.	
DDET 299	Cooperative Education	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is paid.	
DE 101	Data Entry Skill-building	2
	<i>(Prerequisites: AA 101 or 35 wpm typing speed on a five-minute timing, RDG 099 or equivalent, ENG 099 or equivalent, and MATH 099 or equivalent)</i> Open-exit course: development of speed and accuracy for computer data entry applications. (1 theory + 4 lab hours a week for 7.5 weeks)	
DETC 103	Manual Shift Transmissions Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers shop safety, operation and theory of manual shift transmissions.	
DETC 103L	Manual Shift Transmissions Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Includes shop safety, disassembly, evaluation, assembly and adjustment of manual shift transmissions used in trucks. Also covers single and twin countershaft transmissions, auxiliary transmissions and transfer gear cases. (5 lab hours a week = 75 lab hours a term)	
DETC 104	Drive Axles, Brakes and Automatic Transmissions Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Emphasizes safety, operation of drive axles and steering axles, air and hydraulic brakes and automatic transmissions.	
DETC 104L	Drive Axles, Brakes and Automatic Transmissions Lab	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents shop safety and disassembly, evaluation, assembly and adjustment of automatic transmissions, drive axles, clutches and other drive train components. Air and hydraulic brake system components are disassembled, evaluated and reassembled. (7.5 lab hours a week = 112.5 lab hours a term)	

Course No.	Course Name	Credit Hours
DETC 105	Hydraulic Systems Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Emphasizes safety and operation of hydraulic systems and components.	
DETC 105L	Hydraulic Systems Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents shop safety, disassembly, evaluation and assembly of hydraulic pumps, valves, actuators and hydraulic circuits used in the heavy-equipment industry. Covers hydrostatic transmissions and in-line circuit testers. (5 lab hours a week = 75 lab hours a term)	
DETC 111	Diesel Engine Overhaul Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Emphasizes four-cycle diesel engine operating principles. Covers operation and troubleshooting procedures for blocks, crankshafts, camshafts, rods, bearings, pistons, cylinder heads, lubrication systems, cooling systems, fuel systems, air induction and exhaust systems. Stresses job seeking and retention skills.	
DETC 111L	Diesel Engine Overhaul Lab	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers engine disassembly, evaluation and reassembly techniques. Engines are assembled to manufacturer's recommended specifications then operated and adjusted on a test stand. (7.5 lab hours a week = 112.5 lab hours a term)	
DETC 112	Precision Measurement and Component Repair Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents uses of micrometers and dial indicators. Measurements are done on engines and compared to manufacturer's specifications. Component repair involves disassembly, evaluation and reassembly of units such as blowers, turbochargers, oil pumps, water pumps and fuel transfer pumps.	
DETC 112L	Precision Measurement and Component Repair Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval; prerequisite: DETC 102 or department approval; pre- or corequisite: DETC 111)</i> Presents the uses of micrometers and dial indicators. Measurements are done on engines then compared to manufacturer's specifications. Component repair involves disassembly, evaluation and reassembly of units such as blowers, turbochargers, oil pumps, water pumps and fuel transfer pumps. (5 lab hours a week = 75 lab hours a term)	
DETC 113	Diesel Engine Tune-up and Testing Theory	1
	<i>(Prerequisites: RDG 099, MATH 097 or department approval)</i> Covers safety, tune-up and diagnostic principles and practices.	

Course No.	Course Name	Credit Hours
DETC 113L	Diesel Engine Tune-up and Testing Lab	2
	Perform engine adjustments and tune-ups on major brands of engines. Practice troubleshooting skills on engines in operating condition. (5 lab hours a week = 75 lab hours a term)	
DETC 201	Diesel Electrical Theory	2
	Covers shop safety and diagnosis and troubleshooting procedures of electrical systems and diesel components.	
DETC 201L	Diesel Electrical Lab	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Practice shop safety and diagnostic and troubleshooting procedures of electrical components and diesel systems. (7.5 lab hours a week = 112.5 lab hours a term)	
DETC 202	Diesel Fuel Injection Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Reviews safety, diagnosis, troubleshooting and repair of fuel injection systems and diesel components are reviewed.	
DETC 202L	Diesel Fuel Injection Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Practice safety and diagnosis, troubleshooting and repair procedures on fuel injection systems and diesel components. (5 lab hours a week = 75 lab hours a term)	
DETC 203	Transport Refrigeration/ Air Conditioning Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval; pre- or corequisite: DETC 201 or department approval)</i> Presents shop safety and diagnostic, troubleshooting and repair procedures of transport refrigeration and air conditioning systems.	
DETC 203L	Transport Refrigeration/ Air Conditioning Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Practice shop safety while learning diagnostic, troubleshooting and repair procedures on transport refrigeration and air conditioning systems. (7.5 lab hours a week = 112.5 lab hours a term)	
DETC 296	Special Topics	1-6
	<i>(Prerequisite: department approval)</i> This course includes an in-depth study of problems and the advanced techniques diesel technicians use in responding to them.	
ALL DMS CLASSES ARE PENDING APPROVAL		
DMS 101	Introduction to Diagnostic Medical Sonography	1
	<i>(Prerequisites: PHYS 151/151L, MATH 121, ENG 101, Humanities elective; pre- or corequisites: BIO 237/247L; corequisite: DMS 102L)</i> Presents general information about the profession, credentialing, work environments and relationship to other health care professionals.	

Course No.	Course Name	Credit Hours
DMS 102L	Medical Concepts	4
	<i>(Prerequisites: PHYS 151/151L, MATH 121, ENG 101, Humanities elective; pre- or corequisites: BIO 237/247L; corequisite: DMS 101)</i> Provides information about medical terminology, Sonographic/other non-invasive diagnostic vascular terminology, pertinent clinical signs, symptoms and laboratory tests, diagnostic testing protocols related to specific disease conditions, medical ethics, pertinent legal issues/principles, professional scopes of practice, trends in health care systems. (3 hours theory + 3 hours lab)	
DMS 103	DMS Pathophysiology	3
	<i>(Prerequisites: DMS 101, DMS 102L, BIO 237/247L; pre- or corequisites: BIO 238/248L; corequisites: DMS 120L, DMS 130)</i> Study the physiology of blood flow dynamics, pertinent pathology and pathophysiology, biologic effects of ultrasound and pertinent in-vitro and in-vivo studies.	
DMS 120L	General Sonography I	5
	<i>(Prerequisites: DMS 101, DMS 102L, BIO 237/247L; pre- or corequisites: BIO 238/248L; corequisites: DMS 103, DMS 130)</i> Includes sonographic examinations of abdomen, superficial structures, non-cardiac chest and the gravid and non gravid pelvis utilizing real-time equipment with both transabdominal and endocavitary transducers, Doppler, and color Doppler display modes. Focuses on normal anatomic structures. (3 hours theory + 6 hours lab)	
DMS 130	Sonographic Physics I	3
	<i>(Prerequisites: DMS 101, DMS 102L, BIO 237/247L; pre- or corequisites: BIO 238/248L; corequisites: DMS 103, DMS 120L)</i> Introduces acoustical physics, sound production and propagation, interaction of sound and matter, instrument options and transducer selection, principles of ultrasound instruments and modes of operation, operator control options. Includes introduction to Doppler principles and applications.	
DMS 210	Cross Sectional Anatomy	3
	<i>(Prerequisites: DMS 103, DMS 120L, DMS 130; corequisites: DMS 211, DMS 220L, DMS 230)</i> Presents cross sectional anatomy and embryology.	
DMS 211	Patient Care/Quality Control	3
	<i>(Prerequisites: COMM 221, DMS 103, DMS 120L, DMS 130; corequisites: DMS 210, DMS 220L, DMS 230)</i> Presents infection control and universal precaution procedures and pertinent patient care procedures including psychological and emergency support. Presents administrative procedures such as quality control, records maintenance and professional responsibilities.	
DMS 220L	General Sonography II	7
	<i>(Prerequisites: DMS 103, DMS 120L, DMS 130; corequisites: DMS 210, DMS 211, DMS 230)</i> Practice sonographic examinations of abdomen, superficial structures, non-cardiac chest and the gravid and non gravid pelvis using real-time equipment. Focuses on abnormal conditions. Includes nine hours per week of clinical experiences. (4 hours theory + 9 lab hours lab)	

Course No.	Course Name	Credit Hours
DMS 230	Sonography Physics II	3
<i>(Prerequisites: DMS 103, DMS 120L, DMS 130; corequisites: DMS 210, DMS 211, DMS 220L)</i> Presents the physics and principles of Doppler techniques for recording static and dynamic images and acoustical artifacts.		
DMS 260C	General Sonography Internship	12
<i>(Prerequisites: DMS 210, DMS 211, DMS 220L, DMS 230; Corequisite: DMS 270L)</i> Includes supervised clinical experiences within a healthcare setting. (36 clinical hours weekly)		
DMS 270L	Clinical Seminar	1
<i>(Prerequisites: DMS 210, DMS 211, DMS 220L, DMS 230; Corequisite: DMS 260C)</i> Includes weekly case study discussions and conferences. Review of program courses and preparation for National Registry examinations. (3 lab hours weekly)		
DRFT 100	Introduction to Drafting	3
Introduces basic concepts of drafting. Helps prepare students for Architectural/Engineering Drafting Technology, Construction Technology, Design Drafting Engineering Technology and related programs. (3 theory hours + 1 lab hour a week)		
ECM 101	Web Accounting	3
<i>(Prerequisite: MATH 099; pre- or corequisite: ACCT 101A, BA 150 and ECM 176 or permission of director)</i> Introduces Web-based accounting terminology, accounting transactions, credit card accounting, inventory, purchasing, auditing and billing.		
ECM 102	Internet Customer Service	3
<i>(Pre- or corequisite: ECM 176, BA 150 or permission of director)</i> Web-based customer service for growing and maintaining a loyal customer base, as well as continually attracting new customers. Course includes Web customer service, timely transactions and convenience issues.		
ECM 105	Cyber Sales	3
<i>(Pre- or corequisite: ECM 176 or permission of director)</i> Internet sales to increase profits, minimize costs, purchase goods and services and improve productivity in a virtual environment. Web business models include storefronts, cybermalls and auctions.		
ECM 176	Introduction to Internet Commerce I	1
Introduction to E-Commerce business models and payment systems. Internet operation and concepts including ISP, ASP, FTP, email, routing, bandwidth and security. (5 weeks; 2 theory + 3 lab hours a week) Course fee: \$5. [Previously offered as MMS 176]		
ECM 220	Web Marketing	3
<i>(Pre- or corequisite: ECM 176, BA 150 or permission of director)</i> Internet marketing includes designing and communicating for: customer loyalty, product or service uniqueness, targeting markets, understanding the five Ps for Internet marketing, examining commercial aspects of the Web, enterprise resource planning, supply chain		

Course No.	Course Name	Credit Hours
	management and reshaping business and communication in a virtual environment.	
ECM 223	Online Payment Systems	3
Information on specifications and applications of current electronic settlement systems including electronic cash and third-party payment protocols used for financial transactions over the Internet. Instruction includes analysis of security and fraud detection features.		
ECM 224	Knowledge Management	3
<i>(Pre- or corequisites: ECM 102 or permission of director)</i> Collecting and analyzing information for better business decision making using online databases.		
ECM 226	Online Business Law	3
<i>(Pre- or corequisites: ECM 224 or permission of director)</i> Major legal issues such as electronic information, information security, regulating content/conduct, interstate commerce issues, purchasing issues and online transactions are introduced.		
ECM 260	Business Web Security	3
<i>(Prerequisite: CIS 278; pre- or corequisite: ECM 176; or permission of director)</i> Overview of security, policies and practices to minimize risk to business web sites.		
ECM 270	Web Site Management	3
<i>(Prerequisite: CIS 278; pre- or corequisite: ECM 176; or permission of director)</i> Introduces team approach to managing web sites. Coordinate the efforts of a multi-disciplinary team within existing infrastructure.		
ECM 280	Web Customer Identification	3
<i>(Pre- or corequisite: ECM 102 or permission of director)</i> Techniques for collecting and managing customer data. Policies and practices to address customer privacy issues.		
ECM 296	Topics Course	1-3
Current topics in e-commerce.		
ECM 297	Special Problems	Variable
<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.		
ECM 298	Internship	4
<i>(Prerequisite: permission of director)</i> Students work a minimum of 150 hours at business or training-related supervised work stations. Students are not paid for their work but are supervised jointly by TVI and the company. (1 theory + 9 lab hours a week)		
ECM 299	Cooperative Education	4
<i>(Prerequisites: permission of director)</i> Students work a minimum of 150 hours at business or training-related supervised work stations. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)		
ECON 101	Introduction to Economics	3
<i>(Prerequisite: RDG 100)</i> Broad survey of the theories, history, and relationships of economics.		

Course No.	Course Name	Credit Hours
ECON 200	Macroeconomics	3
	<i>(Prerequisite: RDG 100)</i> Study of theories and problems of economic policy, including the contrast of the Classical and Keynesian models, money and banking, inflation, unemployment, and economic growth.	
ECON 201	Microeconomics	3
	<i>(Prerequisite: RDG 100)</i> Study of laws of demand and supply and the workings of the price systems in a free market. Basic economic theory applied to problems of production, monopoly, taxation, consumer welfare, and the environment.	
ECON 296	Topics in Economics	3
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
EET 107L	Graphics and Analytical Methods	3
	<i>(Pre- or corequisite: MATH 150 or 121)</i> Study of mechanical and electronic drafting methods including schematic preparation, printed circuit layout, chassis definition and wiring. Lab time is devoted to techniques required to prepare drawings. Experience in word processing, spreadsheet preparation, graphics, data base preparation and CAD. (2 theory + 3 lab hours a week) Course fee: \$15	
EET 109L	Circuit Analysis I	5
	<i>(Pre- or corequisites: ENG 101, EET 107L)</i> Analyze passive DC circuits using Ohm's Law, Kirchhoff's Laws, source conversions, network theorems and branch/mesh/nodal analysis. Includes transient analysis of R-C and R-L circuits along with concepts of energy, power and efficiency. Computers are used. (3 theory + 5 lab hours a week)	
EET 113L	Structured Computer Programming	3
	<i>(Prerequisite: MATH 121 or 150)</i> Introduces beginning computer programming using engineering applications. (2 theory + 2.5 lab hours a week) Course fee: \$15	
EET 117L	Digital Electronics I	3
	<i>(Prerequisite: EET 109L)</i> Analyze and design combinational logic and integrated circuits using Boolean algebra, Karnaugh maps and logic diagrams. Study number systems, binary codes and code conversions along with flip flops, multivibrators and circuit applications. Lab work emphasizes wiring and troubleshooting skill. (3 theory + 1 lab hours a week)	
EET 119L	Circuit Analysis II	5
	<i>(Pre- or corequisites: ENG 119, MATH 123. Knowledge of CAD is desirable.)</i> Study passive AC circuits with dependent and independent sources along with network theorems, phasor analysis, AC measurements, power factor analysis/correction, sweep generation usage and Fourier series. Computers are used for complex mathematical problem solving, spreadsheet preparation, graphics, word processing and CAD. (3 theory + 5 lab hours a week)	

Course No.	Course Name	Credit Hours
EET 207L	Digital Electronics II	3
	<i>(Prerequisite: EET 117L)</i> Study logic circuit decoders, encoders, multiplexers, counters and registers along with ADCs, DACs, RAM, ROM, PLDs and applications. (3 theory + 1 lab hours a week)	
EET 208L	Microprocessors	4
	<i>(Prerequisite: EET 113L; pre- or corequisite: EET 207L)</i> Study in depth microprocessors and microcomputers with emphasis on machine and assembly language programming. Interrupts and DOS entry points are introduced. (3 theory + 3 lab hours a week)	
EET 209L	Electronic Devices	5
	<i>(Pre- or corequisite: EET 119L)</i> Study diodes, bipolar transistors, FETs and circuits including rectifiers, zener diode regulators, clippers, clampers and amplifiers. Stresses transistor modeling and circuit analysis/design along with computer use for circuit analysis, spreadsheet preparation, graphics and word processing. (3 theory + 5 lab hours a week)	
EET 218L	Microprocessor Interfacing	3
	<i>(Prerequisites: EET 208L, 209L)</i> Study I/O devices including printers and protoboard circuits to a microcomputer. Prepare and present documentation describing system operation and organization along with block diagrams, schematics and structured software. (2 theory + 2.5 lab hours a week)	
EET 219L	Electronic Systems	5
	<i>(Prerequisite: EET 209L)</i> Study electronic system schematics along with frequency considerations, decibel usage, differential and operational amplifiers, power supplies, thyristors, PLLs, oscillators and feedback concepts. Each student prepares a technical manual for a computer-controlled system. Presents video monitor basics and introductory transmission line theory. Use computers for advanced circuit analysis, instrument control, data logging and word processing. (3 theory + 5 lab hours a week)	
EET 296	Topics	1-5
	<i>(Prerequisite: open to advanced Electronics students)</i> The topics depend on the requests from the community.	
EET 297	Special Problems	3-5
	<i>(Prerequisite: enrolled only in 200-level technical courses and/or permission of program chair)</i> Define with the instructor a specific problem directly related to the program in the area of the student's interest. Develop and execute a solution using analytical and computer-aided techniques appropriate to the problem. An oral presentation may be required.	
EET 298	Internship	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is not paid.	

Course No.	Course Name	Credit Hours
EET 299	Cooperative Education	3
	<i>(Prerequisite: permission of program chair)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is paid.	
ELEC 100	Introduction to Electronics for Technologies/Trades	3
	Provides preparation for first-term courses that have an electricity and electronics emphasis. Covers circuit analysis, magnetism, generators, inductance, capacitance and digital. Develops skills in critical thinking and problem solving. (3 theory hours + 1 lab hour a week)	
ELEC 103A	Electronics Fundamentals A	4
	<i>(Recommended corequisite: ELEC 104 or strong mathematics background or permission of director)</i> Covers the basic concepts of DC electronics with emphasis on Ohm's Law, Kirchhoff's Law, circuit analysis, component application and troubleshooting. Construct circuits from schematic diagrams and use multimeters in the lab. (3 theory + 3 lab hours a week) Course fee: \$15	
ELEC 103B	Electronics Fundamentals B	4
	<i>(Prerequisite: ELEC 103A)</i> Covers the basic concepts of AC electronics with emphasis on Ohm's Law, Kirchhoff's Law, circuit analysis, and component application. Construct, analyze, and troubleshoot AC circuits with multimeters, oscilloscopes and function generators in the lab. (3 theory + 3 lab hours a week)	
ELEC 103L	Electronics Fundamentals	8
	<i>(Recommended corequisite: ELEC 104 or strong mathematics background)</i> Covers the basic concepts of DC and AC electronics with emphasis on Kirchhoff's Law, circuit analysis and component application with troubleshooting. Uses oscilloscopes, function generators and multimeters and construct circuits from schematic diagrams. ELEC 103L = ELEC 103A + ELEC 103B (5 theory + 9 lab hours a week) Course fee: \$15	
ELEC 104	Electronics Mathematics	5
	<i>(Prerequisite: MATH 100B or sufficient math placement score)</i> Includes selected topics from algebra, geometry, and trigonometry that support the Technologies programs. Also includes metric conversions, simultaneous linear equations, complex numbers, the impedance triangle and exponential and logarithmic functions. (5 theory hours a week)	
ELEC 105L	Digital Circuits	4
	<i>(Recommended corequisite: ELEC 104 or strong mathematics background)</i> Covers the fundamental concepts and applications of digital logic circuits along with number systems and Boolean algebra. Uses basic logic gates and MSI, LSI circuits to develop operational digital circuits. (4 theory + 1 lab hours a week)	

Course No.	Course Name	Credit Hours
ELEC 111L	Introduction to Photonics	4
	<i>(Prerequisite: ELEC 103L; corequisite: ELEC 105L)</i> Introduces fiber optics and optical transducer theory including the basics of laser safety and operation. Strengthen concepts through laboratory experiments in all three areas. (3 theory + 3 lab hours a week)	
ELEC 114A	Semiconductor Devices A	3
	<i>(Prerequisites: ELEC 103L, 104)</i> Covers the basic concepts and applications of semiconductors, rectifier circuits, transistor biasing techniques, AC circuits and transistor regulated power supplies. (2 theory + 3 lab hours a week)	
ELEC 114B	Semiconductor Devices B	3
	<i>(Prerequisite: ELEC 114A)</i> Covers field effect transistor circuits, op-amp theory, linear and non-linear op-amp circuits and frequency effects. (2 theory + 3 lab hours a week)	
ELEC 114L	Semiconductor Devices	6
	<i>(Prerequisites: ELEC 103L, 104)</i> Introduces semiconductor devices, diodes, transistors, op-amps and JFETS, and their application in simple power supplies and amplifiers. Students construct, analyze and troubleshoot semiconductor circuits. (4 theory + 6 lab hours a week)	
ELEC 118L	Electromechanical Devices	6
	<i>(Prerequisites: ELEC 103L, 104, 105L)</i> Presents theory and application of mechanical devices and their control circuits. Includes hydraulics, pneumatics, vacuum, AC and DC motors, stepper motors and servomechanisms. Students assemble, operate and troubleshoot small-scale electromechanical systems. (4 theory + 6 lab hours a week)	
ELEC 203L	Introduction to Microprocessors	6
	<i>(Prerequisites: ELEC 118L, CP 176)</i> Focuses on the 8088 microprocessor in an MS-DOS environment. Programs are written in Assembly language and in a higher level language to drive the PC's serial, I/O, parallel printer port and disk drives. Students build individual buffered interfaces that connect with a PC's I/O backplane for their custom I/O applications. (4 theory + 6 lab hours a week)	
ELEC 205L	Analog Circuits	6
	<i>(Prerequisite: ELEC 114L)</i> Covers circuitry involved in an analog system. Introduces discrete transistor circuits and classes of operation. Presents signal generation and active filters using operational amplifiers. Reviews the fundamentals of modulation and demodulation. (4 theory + 6 lab hours a week)	
ELEC 214L	Troubleshooting Techniques	3
	<i>(Prerequisite: ELEC 205L or equivalent)</i> Focuses on systematic analysis to locate problems. Apply troubleshooting techniques to a complete electronic system. (2 theory + 3 lab hours a week)	

Course No.	Course Name	Credit Hours
ELEC 217	Upgrading and Repairing PCs	3
<i>(Recommended corequisite: CP 176 or permission of director)</i> Covers basic aspects of computer repair, troubleshooting techniques with and without software, modification and replacement. Emphasizes microcomputers and related hardware. (2 theory + 3 lab hours a week) Course fee: \$15		
ELEC 220	Digital Signal Processing Systems	6
<i>(Prerequisites: ELEC 203L, 205L)</i> Covers op-amp theory, applications and limitations, analog circuit analysis and filtering techniques, including passive, active and digital filters. Presents interfacing methods between analog signals and digital computers. Includes address decoding, DAC and ADC applications, parallel and serial interfaces and transmission line theory. (4 theory + 6 lab hours a week)		
ELEC 221	Advanced Upgrading and Repairing PC's	3
<i>(Prerequisite: ELEC 217)</i> Includes a more advanced aspect of computer troubleshooting techniques, repair, and modifications. Emphasizes A+ Certification, which is an industry-recognized credential. (2 theory + 3 lab hours a week) Course fee: \$15		
ELEC 223	RF/Consumer Electronics	6
<i>(Prerequisites: ELEC 114L, 205L)</i> Introduces radio frequency communication theory, circuits and problems. Covers analog and digital video and audio transmission, recording and playback methods, and equipment with emphasis on alignment, troubleshooting and repair. (4 theory + 6 lab hours a week)		
ELEC 276L	Soldering Techniques	2
Introduces non-destructive printed circuit board repairs and component replacement techniques using a modern repair center to learn high-reliability soldering and desoldering techniques. (7.5 wks; 1 theory + 3 lab hours a week) Course fee: \$15		
ELEC 277L	Advanced Soldering Techniques	2
<i>(Prerequisite: ELEC 276L)</i> Presents advanced concepts of soldering using a modern repair center to learn high-reliability surface mount technology (SMT) soldering and desoldering techniques. Must have good visual perception. (7.5 wks; 1 theory + 3 lab hours a week) Course fee: \$15		
ELEC 279	Electronics Refresher	3
<i>(Prerequisite: completion of an electronics program or equivalent)</i> Review electronics fundamentals, including basic components, semiconductors, op-amps, digital electronics and microprocessors.		
ELEC 282	Pulsed Power	3
<i>(Prerequisite: ELEC 114L or permission of director)</i> Covers generation, transmission and measurement of high-voltage and pulsed power systems.		
ELEC 296	Topics	1-8
<i>(Prerequisite: advanced Electronics student)</i> The topics depend on the requests from the community.		

Course No.	Course Name	Credit Hours
ELEC 297	Special Problems	2-8
<i>(Prerequisite: advanced Electronics student)</i> The student is given a problem to investigate and solve. The student designs the solution using a combination of techniques.		
ELEC 298	Internship	3
<i>(Prerequisite: permission of the director)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is not paid.		
ELEC 299	Cooperative Education	3
<i>(Prerequisite: permission of the director)</i> In cooperation with local industry, the student works for one term on a cooperative basis in an appropriate training program. The position is paid.		
ELTR 101	Electrical Theory I	4
<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval; pre- or corequisite: ELTR 102)</i> Covers the basic concepts of DC and AC electricity with emphasis on Ohm's Law, Kirchoff's Law, circuit analysis and troubleshooting. Includes DC and AC theory, symbol identification, schematic reading, circuit application, magnetism, basic transformers, single-phase motors and application of the National Electrical Code.		
ELTR 102	Electrical Math I	3
<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Includes basic arithmetic functions, electrical formulas, calculations of material and circuit load requirements, rules for series, parallel and combination circuits and mechanical work and power.		
ELTR 103L	Electrical DC/AC Lab	3
<i>(Pre- or corequisites: ELTR 101, 102 or department approval)</i> Emphasis is placed on safety. Includes electrical circuitry, meters, power sources, conductors, insulators, reactive circuits and application of the National Electrical Code. (7.5 lab hours a week = 112.5 lab hours a term)		
ELTR 104L	AC Circuitry, Motors, Generators	3
<i>(Pre- or corequisites: ELTR 101, 102 or department approval)</i> Includes combination circuit analysis, RLC circuitry, DC/AC motors, generators, solid-state components, wiring methods for single pole and three-way switches and application of the National Electrical Code. Stresses safety. (7.5 lab hours a week = 112.5 lab hours a term)		
ELTR 112	Blueprint Reading I	3
<i>(Pre- or corequisite: ELTR 101 or department approval)</i> Provides instruction in reading and interpreting blueprints and specifications. Emphasizes is on terminology, symbols, notations, scaling, dimensioning and basic blueprint drawing techniques.		
ELTR 113	Electrical Theory II	4
<i>(Pre- or corequisite: ELTR 112 or department approval)</i> Covers the application of the National Electrical Code, local codes and regulations for installation of branch		

circuits, services, feeders, temporary services and associated materials and equipment for residential and light commercial applications.

ELTR 114L Residential Wiring Lab 3
(Pre- or corequisites: ELTR 112, 113 or department approval) Covers safety, tools, materials, single pole switches, receptacles, overcurrent protection, three- and four-way switches, pilot switches, door chimes, dryer and range receptacles and swamp coolers, as well as NEC requirements for residential and light commercial applications. (7.5 lab hours a week = 112.5 lab hours a term)

ELTR 115L Residential Electrical Services 3
(Pre- or corequisites: ELTR 112, 113 or department approval) Study and building of residential services, installation of circuit panels, cutting and threading rigid conduit, hand bending and installation of EMT conduit in adherence to the National Electrical Code. (7.5 lab hours a week = 112.5 lab hours a term)

ELTR 170 Electrical Wiring Circuitry 2
 Provides instruction in the interpretation, design and wiring of common switch, receptacle and related circuitry in accordance with the NEC and state and local codes.

ELTR 171L Conduit Hand Bending Fundamentals 1
 Provides instruction in the computation and placement of conduit hand benders to bend and install conduit systems in accordance with the NEC and state and local codes. (.5 theory + 2 lab hours a week = 7.5 theory + 30 lab hours a term)

ELTR 173 Industrial Motor Control Circuitry 2
 Presents the design, interpretation, drawing and installation of electromechanical relay type motor controls in accordance with the National Electrical Code.

ELTR 174L Industrial PC Motor Control 3
 Reviews with application the operation of programmable logic controllers, interpretation of PLC logic diagrams and the installation of programming of PLC systems in accordance with the National Electrical Code. (1 theory + 5 lab hours a week)

ELTR 175 Fiber Optical Cable Installation 2
 Introduces the installation of fiber optical cable in various systems. Emphasizes proper installation and termination.

ELTR 176 Electrical Journeyman Preparation 3
 Reviews the use and application of the National Electrical Code and the duties encountered by journeymen on typical job sites are reviewed in preparation for the New Mexico journeyman's electrical exam.

ELTR 201 Electrical Theory III 4
(Prerequisites: ELTR 111, 112, 113, 114L, 115L or department approval) Introduces commercial/industrial aspects of electrical safety, tools, materials, power distribution systems, services, hazardous locations,

intrusion/fire alarm systems in accordance with the National Electrical Code and blueprint reading.

ELTR 203 Electrical Motor Control Theory 3
(Prerequisite: ELTR 112 or department approval; pre- or corequisite: ELTR 201) Introduces students to the symbology and method of interpreting and drawing electromechanical motor control circuitry. NEMA standards are studied in detail.

ELTR 204L Industrial Motor Control Lab 3
(Pre- or corequisite: ELTR 203 or department approval) Includes safety, electromechanical relay-type motor control, momentary push button switches, limit switches, proximity switches, pneumatic timers, forward/reverse starters, three-phase motors and National Electrical Code requirements. (7.5 lab hours a week = 112.5 lab hours a term)

ELTR 205L Industrial Power Distribution 3
(Pre- or corequisites: ELTR 201, 204L or department approval) Covers safety, use of mechanical and hydraulic benders, use of power threaders, knock-out punches, hammer drills and powder actuated fasteners, drop-in anchors, cable installation, cutting, splicing and termination, wire pulling and the application of the NEC. (7.5 lab hours a week = 112.5 lab hours a term)

ELTR 211 Industrial Electrical Circuitry and Safety 3
(Prerequisites: ELTR 201, 202, 203, 204L, 205L or department approval) Emphasizes safety principles and standards used in the electrical field and techniques for electrical troubleshooting.

ELTR 212 Programmable Logic Controller Theory 4
(Pre- or corequisites: ELTR 211 or ELEC 103L, 105L or department approval) Includes the principles of operation of a programmable controller, the numbering systems used by controllers, logic fundamentals and basics of programming.

ELTR 213L PLC Installation and Operation 3
(Pre- or corequisites: ELTR 211, 212 or ELEC 103L, 105L or department approval) Includes installation and programming of programmable logic controllers in accordance with manufacturer's specifications and NEC requirements. Covers simulating fundamental industrial control processes with various input and output devices. (7.5 lab hours a week = 112.5 lab hours a term)

ELTR 214L PLC Systems Operation and Troubleshooting 3
(Pre- or corequisites: ELTR 211, 212 or department approval) Covers intricate industrial wiring, motor controls and motor troubleshooting, programmable controller timer, counter and sequence program operations and the troubleshooting techniques involved. (7.5 lab hours a week = 112.5 lab hours a term)

Course No.	Course Name	Credit Hours
ELTR 296	Special Topics	1-6
<i>(Prerequisite: department approval)</i> Provides advanced, in-depth study and research into methods and current technological equipment used in the electrical trades.		
EMS 160L	Basic Emergency Medical Technician Skills	6
<i>(Prerequisites: BLS CPR certification, RDG 099 or equivalent, MATH 099 or equivalent)</i> Introduces emergency medical techniques provided by rescue squads including use of airway adjuncts, oxygen therapy, splinting, patient assessment and treatment for shock. (4 theory + 5 lab hours a week) Course fee: \$15; uniform fee: \$40		
ENG 096	Special Topics	1-3
Presents various topics in developmental English.		
ENG 098	Basic Writing and Reading Skills	3
<i>(Prerequisite: appropriate placement by exam)</i> Focuses on reading and writing in everyday life. Provides practice in studying and reading strategies, paragraph and short-essay writing and sentence construction. Review of English grammar, usage and punctuation. (3 theory hours + 1 lab hour a week)		
ENG 099	Practical Writing	3
<i>(Prerequisite: ENG 098 or equivalent)</i> Focuses on writing tasks related to daily life, school and the workplace to achieve a variety of practical and academic goals. Presents English grammar, usage and punctuation in the context of the students' own writing. (3 theory hours + 1 lab hour a week)		
ENG 100	Essay Writing	3
<i>(Prerequisite: ENG 099 or equivalent)</i> Focuses on writing effective essays through brainstorming, drafting, revising/editing and peer feedback. Practice in developing and organizing ideas into essays. Presents grammar, usage and punctuation in the context of the students' own writing. (3 theory hours + 1 lab hour a week)		
ENG 098L	ESL Lab	1
For ESL students enrolled in ENG 098, 099 or 100. Teaches students to recognize and correct grammatical errors commonly made in writing assignments by native speakers of a language other than English. Provides practice in speaking, listening and vocabulary development. (2 lab hours a week)		
ENG 099L	ESL Lab	1
For ESL students enrolled in ENG 098, 099 or 100. Teaches students to recognize and correct grammatical errors commonly made in writing assignments by native speakers of a language other than English. Provides practice in speaking, listening and vocabulary development. (2 lab hours a week)		
ENG 100L	ESL Lab	1
For ESL students enrolled in ENG 098, 099 or 100. Teaches students to recognize and correct grammatical errors commonly made in writing assignments by native speakers of a language other than English. Provides		

Course No.	Course Name	Credit Hours
practice in speaking, listening and vocabulary development. (2 lab hours a week)		
ENG 101	College Writing	3
<i>(Prerequisite: RDG 100 or equivalent; ENG 100 or equivalent.)</i> Skills approach to text-based essay composition, including critical reading, summary writing and synthesis.		
ENG 102	Analytic and Argumentative Writing	3
<i>(Prerequisite: ENG 101)</i> Skills approach to analytic and argumentative writing with readings and research in exposition and literature.		
ENG 119	Technical Communications	3
<i>(Prerequisite: ENG 101)</i> Introductory study of written and verbal communication in business and industry.		
ENG 150	Study of Literature	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Introduction to the study of literature. <i>Fall only</i>		
ENG 206 D,F,S,W	Popular Literature	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Analysis of a popular literary form <i>D: Detective Novel; F: Science Fiction; S: Espionage Fiction; W: Western.</i>		
ENG 210	Film as Literature	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Study of film as visual literature, surveying major trends in the history of film.		
ENG 211	Topics in Literature	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Various topics. See Schedule of Classes.		
ENG 212	Topics in Language and Writing	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Various topics. See Schedule of Classes.		
ENG 213 D,F,W	Film Genres	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of film genre or national cinema. <i>D: Comedy; F: Film Noir; W: Western.</i>		
ENG 219	Technical Writing	3
<i>(Prerequisite: ENG 102)</i> Skills approach to writing in industry, research laboratories, business and other professional settings.		
ENG 220	Expository Writing	3
<i>(Prerequisite: ENG 102)</i> Skills approach to advanced composition, concentrating on critical reading of prose, writing expository and argumentative essays. <i>Fall only.</i>		
ENG 221	Creative Writing: Fiction	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Skills approach to fiction writing as a creative process.		
ENG 222	Creative Writing: Poetry	3
<i>(Prerequisite: ENG 101 or permission of instructor)</i> Skills approach to poetry writing as a creative process.		

Course No.	Course Name	Credit Hours
ENG 240	Traditional Grammar	3
	Survey of traditional grammar, introducing linguistic terminology and methods for identifying and understanding parts of speech, parts of sentences and basic sentence patterns.	
ENG 250	Analysis of Literature	3
	<i>(Prerequisite: ENG 102 or equivalent)</i> Introduction to methods of literary analysis and critical writing applied to literary techniques, conventions and themes. <i>Spring only.</i>	
ENG 251	Introduction to Dramatic Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Introduction to structure and nature of drama as a literary form: Greek, Renaissance, Enlightenment and Modern eras. <i>Spring only.</i>	
ENG 252	Introduction to Shakespeare	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Study of Shakespeare's work: sonnets, tragedies, comedies and histories. <i>Fall only.</i>	
ENG 262	Survey of Earlier World Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of poetry, fiction and drama from primarily non-English cultures: ca. 1500 B.C.-A.D. 1650. <i>Fall only.</i>	
ENG 263	Survey of Later World Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of poetry, fiction and drama from primarily non-English cultures: ca. 1650 to present. <i>Spring only.</i>	
ENG 270	Modern Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of American and European literature of the 20th century.	
ENG 282	Modern Latin American Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Study of chronicles, diaries, drama, poetry, essays and fiction of Latin America.	
ENG 294	Survey of Earlier English Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of British literature from Old English to 1798. <i>Fall only.</i>	
ENG 295	Survey of Later English Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Survey of English literature from the late 18 th century to the present. <i>Spring only.</i>	
ENG 296	American Literature	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Short stories, poetry, drama and nonfiction from colonial U.S. to the present.	

Course No.	Course Name	Credit Hours
ENTR 102	Entrepreneurship in a Global Setting	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Small business exporting and importing, market analysis, pricing, financing, marketing, insurance, transportation and distribution of exports/imports and North American Free Trade Agreement (NAFTA) are covered.	
ENTR 103	Entrepreneurship	3
	Tasks and activities are accomplished through lecture, group activities and completion of a business plan.	
EPT 102	Emergency Response	3
	Offers standard first aid and cardiopulmonary resuscitation with Red Cross certification. Also includes emergency management, hazardous materials, DOT labeling and placarding, decontamination protocols and personal safety.	
EPT 111	Environmental Technology I	4
	<i>(Prerequisites: MATH 100, ENG 100 or department approval)</i> Introduces environmental protection methods and their ecological basis. Covers all major areas of environmental concern including air, water, soils and food sanitation.	
EPT 112	Hazards and Protection Training	3
	<i>(Prerequisite: EPT 213, CHEM 111/112L, computer elective or department approval)</i> Covers safe work practices at hazardous waste sites. Procedures specified by OSHA in the 29 CFR 1910.120 regulation concerning safety and health plans, site characterization and analysis, waste removal and remedial operations. (7.5 lab hours a week = 112.5 lab hours a term)	
EPT 131	Materials Categorization and Analysis	4
	<i>(Prerequisites: CHEM 111/112L or department approval)</i> Introduces fundamentals of analysis of hazardous and non-hazardous materials. Emphasis is on the use of proper techniques and protocols.	
EPT 170	Introduction to OSHA Compliance	3
	Covers everyday application of Occupational Safety and Health Administration (OSHA) standards required in today's workplace.	
EPT 171	Introduction to Safety Management	3
	Present behavioral and management techniques for safety in today's demanding workplace. Topics include planning, budgeting, communications, motivation and people skills.	
EPT 172	Introductory Soil Science	3
	Reviews soil profiles, standard soil classification systems, elementary soil biology and chemistry, root zone interactions, nutrient cycling and agricultural considerations.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
EPT 173	Water Quality Protection	3
<i>(Prerequisites: EPT 111, CHEM 111/112L, math elective, computer elective or department approval)</i> Presents water supply system operations, distribution systems and basic hydraulics and become familiar with water quality protection and treatment techniques including backflow prevention and cross connection control. (1 theory + 5 lab hours a week = 15 theory plus 75 lab hours a term)		
EPT 174	Basic Site Remediation Technology	3
Emphasizes major remedial technologies for site cleanup under federal, state and local regulations. Presents physical, biological, chemical and thermal treatments in common use.		
EPT 175	Pest Management	3
Addresses multiple pest types—insects, weeds, rodents and fungal pests—along with control techniques and impacts on the environment.		
EPT 176	Food Resources and the Environment	3
Presents the impact of food resource choices on the quality of the environment and human health. Explores economic, ecological and social aspects of food resource production and consumption.		
EPT 177	Business Aspects of Environmental Technology	3
<i>(Prerequisites: EPT 111, ENG 101, 119)</i> Includes business aspects of environmental services and consulting. Emphasizes the increasingly competitive nature of the environmental business arena is emphasized.		
EPT 178	Industrial Hygiene for Environmental Technicians	3
<i>(Prerequisites: CHEM 111/112L)</i> Presents recognition, evaluation and control of health hazards encountered during hazardous waste clean-up and emergency responses. Covers personnel monitoring, chemistry, toxicology, pathology and air surveillance.		
EPT 179	Sampling Design and Polychlorinated Biphenyl	3
<i>(Prerequisite: EPT 111 or department approval)</i> Provides practice sampling technique and statistically superior field environmental sampling designs. Covers EPA's Polychlorinated biphenyl (PCB) sampling grid design as well as regulations, spills and cleanups.		
EPT 180	Horticulture	3
Introduces basic principles of horticulture including the history, biology, ecology, and production of horticultural plant species.		
EPT 182	Landscape Irrigation Design	3
Presents basic principles of landscape irrigation system design including basic terminology and concepts, basic hydraulics, plant characterization, soil categorization, xeriscape principles, and irrigation system sizing and layout.		
EPT 211L	Environmental Technology II/Lab	4
<i>(Prerequisites: EPT 111, BIO 111, CHEM 111/112L, physics elective, math elective or department approval)</i>		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
	Presents technical, operational and regulatory aspects of environmental technology. Identification and handling of biological, chemical and nuclear wastes are presented, as well as site sampling, characterization and assessment, waste removal and site remediation methods. (2 theory + 5 lab hours a week = 30 theory + 75 lab hours a term)	
EPT 212	Energy and Waste Management	3
<i>(Prerequisites: EPT 111, CHEM 111/112L, physics elective, math elective, computer elective or department approval)</i> Orients students to energy and waste management focusing on energy requirement assessments, energy conservation techniques and waste reduction and control.		
EPT 214A	Occupational Safety I	1
Introduces topics in safety principles and standards—including OSHA referencing, OSHA inspections, personal protective equipment, fire protection, hazardous materials, walking/working surfaces, electrical standards, and bloodborne pathogens. An OSHA General Industry Health and Safety Outreach Program, 10-hour certificate is awarded for successful completion of this course.		
EPT 214B	Occupational Safety II	1
Includes lock-out/tag-out, material handling, hazardous communication (MSDS & labeling), machine guarding, welding/cutting/brazing, confined spaces, hearing conservation, and general environmental controls.		
EPT 214C	Occupational Safety III	1
Introduces toxic/hazardous substances, respiratory standards, job hazard analysis, recordkeeping, and workers compensation. Upon successful completion of this course and EPT 214A and EPT 214B, an OSHA General Industry Safety and Health Outreach Program 30-hour certificate will be awarded.		
EPT 215	Environmental Instrumentation and Analysis	3
<i>(Prerequisites: EPT 111, math elective or department approval; corequisite: EPT 211L)</i> Explores contemporary instrumentation and techniques in this hands-on introduction to the care and use of laboratory and field-portable instruments. Covers maintenance, calibration and operation of instruments and meters, along with EPA protocols. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)		
EPT 232	Air Quality Protection	1
<i>(Prerequisites: EPT 111, CHEM 111/112L, math elective, computer elective or department approval)</i> Includes fundamentals of vehicle pollution control, city, state and federal rules and regulations governing air pollution, general and point-source emissions and standard air pollution control methods. (.5 theory + 2.5 lab hours a week = 7.5 theory + 37.5 lab hours a term)		
EPT 233	Environmental Bioremediation	4
<i>(Prerequisites: BIOL 121/121L or department approval)</i> Introduces the basic concepts of bioremediation to detoxify hazardous contaminants.		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
EPT 270	Air Pollution Meteorology	3
Presents basic meteorology and climatology, mainly in the Southwest United States. Emphasizes applications to ambient air monitoring, dispersion modeling, air discharge permitting, air quality and hazardous waste transport and sampling considerations.		
EPT 271	Ambient Air Monitoring and Clean Air Act	3
Focuses on the federal Clean Air Act (CAA) and the EPA's and NMED's regulations and enforcement actions. Also covers criteria for the location, construction, instrumentation and operation of meteorological and air chemistry monitoring stations operated for data collection and permit compliance.		
EPT 296	Special Topics	1-6
<i>(Prerequisite: department approval)</i> In-depth study of problems and advanced techniques.		
EPT 299	Cooperative Education	3
The student is employed at an approved course-related work site and applies learned environmental theory based on goals and objectives. The position is paid by the work-site employer.		
ETAP 198	Electrical Trades Apprenticeship	40
<i>(Prerequisite: current full-time employment in the electrical trades industry or department approval)</i> Consists of 600 hours of related classroom instruction covering safety, electrical theory, blueprint reading and layout, National Electrical Code interpretation, tool usage and motor controls.		
FITT 170	Physical Fitness I	1
Introduces assessment of muscular strength, muscular endurance, cardiorespiratory fitness, flexibility and body composition. Based on the assessments, the student designs and participates in a self-paced exercise program. (3 lab hours a week = 45 lab hours a term)		
FITT 171	Physical Fitness II	1
<i>(Prerequisite: FITT 170)</i> Based on fitness assessments, the student designs and participates in an advanced, self-paced exercise program. (3 lab hours a week = 45 lab hours a term)		
FITT 173	Circuit Training	1
Covers structured strength training and aerobics to provide a total body workout within a single format. (3 lab hours a week = 45 lab hours a term)		
FITT 174	Weight Training for Women	1
Introduces weight training designed for women and focuses on the use of free weights and machine exercises to develop muscle endurance, hypertrophy and muscular strength. (3 lab hours a week = 45 lab hours a term)		
FITT 175	Beginning Step Aerobics	1
For individuals who have never participated in a step aerobics program. Addresses cardiorespiratory fitness, flexibility and body composition. (3 lab hours a week = 45 lab hours a term)		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
FITT 176	Intermediate Step Aerobics	1
<i>(Prerequisite: FITT 175 or department approval)</i> For those who know the proper steps on command. (3 lab hours a week = 45 lab hours a term)		
FITT 209	Introduction to Exercise Physiology	3
<i>(Prerequisite: RDG 100 or equivalent; strongly recommended: BIO 100)</i> Covers how the human body responds and adapts to exercise and physical training is introduced. Covers scientifically based exercise programs with applications to individual and team sports. (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) <i>Fall only.</i>		
FITT 211	The Business of Personal Fitness Training	3
<i>(Prerequisite: ENG 100 or equivalent)</i> Focuses on the business of personal training, including marketing services and programs, day-to-day operations, documentation, financial considerations, liability concerns, and trends and issues in the health/fitness industry. (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) <i>Fall only.</i>		
FITT 225	Fitness and Weight Control	3
<i>(Prerequisites: FITT 209 and ENG 100 or equivalent)</i> Provides basic understanding of the interrelationship among exercise, weight control and nutrition. Applications are made to dietary analysis, energy balance, fat loss and weight gain programs. (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) <i>Spring only.</i>		
FITT 277	Kinesiology	3
<i>(Prerequisite: RDG 100 or equivalent)</i> Covers the physiological and kinesiological aspects of muscular fitness training are covered. Special emphasis is placed on designing strength, endurance, hypertrophy and power resistance/weight training programs. (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) (Fall only)		
FITT 289	Fitness Assessment and Exercise Prescription	3
<i>(Prerequisites: FITT 209, 277 and MATH 100A)</i> Covers methods of assessing health status, cardiorespiratory and muscular fitness, flexibility and body composition in apparently healthy individuals and prescribes appropriate exercise programs. (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) <i>Spring only.</i>		
FITT 290	Exercise Prescription for Special Populations	3
<i>(Pre- or corequisite: FITT 289)</i> Reviews the indications and contraindications for assessing and prescribing exercise programs for special populations (elderly, prepubescent children, pregnancy, low back pain, diabetes, spinal cord injury, etc.). (2 theory + 2.5 lab hours a week = 30 theory + 37.5 lab hours per term) <i>Spring only.</i>		

Course No.	Course Name	Credit Hours
FITT 296	Special Topics	1–6
	<i>(Prerequisite: department approval)</i> Covers fitness problems and the advanced techniques that fitness professionals use in responding to them.	
FITT 298	Fitness Technician Field Experience	3
	<i>(Prerequisite: department approval)</i> Provides students with a supervised field experience in a fitness setting. (7.5 lab hours a week = 112.5 hours per term)	
FITT 299	Cooperative Education	3
	The student is employed at an approved course-related work site and applies learned theory based on goals and objectives. The position is paid by the work-site employer.	
FREN 101	Beginning French I	4
	Introduction to French language skills — emphasizing listening, comprehension and speaking.	
FREN 102	Beginning French II	4
	<i>(Prerequisite: FREN 101 or permission of instructor)</i> Continuation of FREN 101 skills.	
FREN 201	Intermediate French	4
	<i>(Prerequisite: FREN 102 or permission of instructor)</i> Continuation of skills from FREN 102 and further knowledge of the language and culture of France.	
FREN 202	Intermediate French II	4
	<i>(Prerequisite: FREN 201 or permission of instructor)</i> Continuation of FREN 201.	
FREN 296	Topics in French	3
	<i>(Prerequisite: varies)</i> Various topics. See Schedule of Classes.	
FS 102	Fire Service Organization	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents basic management principles used in modern fire protection organizations. Includes the fire protection system, fire department organization and management, planning and evaluating systems, data collection, resource management and budgeting.	
FS 103	Introduction to Fire Science	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents an overview of the fire protection system focusing on the history of the fire service, fire protection careers and employment requirements, fire service organizations, firefighting equipment and facilities, and chemistry and behavior of fire.	
FS 111	Fire Prevention	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents a basic overview of fire prevention programs and specific techniques used to reduce the occurrence of fire. Covers public fire safety education programs and basic concepts of installed fire protection and detection systems.	

Course No.	Course Name	Credit Hours
FS 112	Building Construction	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Introduces building construction with emphasis on structural elements, construction materials, construction techniques, fire loading, fire resistance, fire spread and growth in buildings and fire department operations in various building types.	
FS 201	Fire Protection Systems	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents an in-depth study of fire protection system design and operation. Discusses a variety of fire suppression systems including water, carbon dioxide, halon, dry chemical and foam.	
FS 202	Managing Community Fire Protection	3
	<i>(Prerequisite: FS 102 or department approval)</i> Includes legal aspects, program and personnel management, emergency management, EMS and rescue services, code administration, alternative delivery systems, training and trends in the fire service.	
FS 203	Hazardous Materials	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> (Note: Students are required to wear respiratory protection equipment and participate in simulated hazardous materials incidents. Students must complete a pulmonary function test and medical review at the student's expense. Documentation of the medical evaluation must be submitted prior to simulations.) Includes recognition and identification of hazardous materials and defensive actions to prevent additional injuries and property and/or environmental damage. This course meets selected NFPA and OSHA requirements at the Hazardous Materials Operations level.	
FS 211	Incident Command and Control	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Covers specific incident management techniques for a variety of emergency incidents. Includes basic fireground and emergency incident operations, incident management systems and multi-agency/multi-jurisdiction response.	
FS 212	Fire Investigation	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Focuses on investigative techniques to determine fire cause and origin for structural, vehicle, wildland and hazardous materials fires as well as explosions.	
FS 213	Industrial Fire Protection	3
	<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Presents in-depth information regarding industrial loss control concepts focusing on industrial fire and safety hazards, hazardous materials, industrial fire brigades, fire department operations at industrial facilities, and NFPP, ISFSI and OSHA fire brigade standards.	

Course No.	Course Name	Credit Hours
FS 214	Facilities Inspection	3
<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Emphasizes inspections conforming to NFPA 101: Life Safety Code and applicable NFPA fire codes. Covers general and occupancy-specific requirements.		
FS 215	Tactics I	3
<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Provides in-depth information on strategy and tactics used by fire officers at emergency incidents. Includes structural firefighting, rescue, apparatus placement, water supply, ventilation, fire suppression systems, forcible entry and making fireground decisions.		
FS 216	Tactics II	3
<i>(Prerequisite: FS 215 or department approval)</i> Includes high-rise operations, urban search and rescue, wildland fires, aircraft emergencies, hazardous materials, mass casualty incidents and firefighter safety.		
FS 296	Special Topics	1-6
<i>(Prerequisite: department approval)</i> Presents current topics in fire protection and emergency services.		
FS 299	Cooperative Education	3
The student is employed at an approved course-related work site and applies learned theory based upon goals and objectives of the Fire Science program. The position is paid by the work-site employer.		
FSMG 101A	Food Sanitation Principles	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 099 or equivalent or department approval)</i> Food safety and sanitation. Certification is available in sanitation and American Red Cross standard first aid / Adult CPR.		
FSMG 101B	Applied Food Safety	1
<i>(Prerequisites: FSMG 101A or equivalent or department approval)</i> Hazard Analysis Critical Control Point (HACCP) based flowcharts, recipes and models including review of purchasing, receiving, storage and production controls.		
GEOG 101	Physical Geography	3
<i>(Prerequisite: RDG 100)</i> Introduction to the geography of the natural environment: weather systems, climate, regions, vegetation, soils, water resources, plate tectonics and volcanic, structural, erosional, fluvial, coastal, desert and glacial landforms.		
GEOG 102	Human Geography	3
<i>(Prerequisite: RDG 100)</i> Introduction to the cultural landscape: population, migration, languages, religions, folk customs, political units, economic development, agriculture, industry, urbanization and systematic analysis of global environmental issues.		
GEOG 201	World Regional Geography	3
<i>(Prerequisite: RDG 100)</i> Study of global geography with emphasis on regional characteristics, similarities and differences: landforms, climates, history, cultures, and current economic and political problems.		

Course No.	Course Name	Credit Hours
GEOG 296	Topics in Geography	3
<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.		
GIS 201	Introduction to Geographic Information Systems	3
<i>(Prerequisites: Math 120, CP 176, ARDR 180)</i> Introduces the concepts of Geographic Information Systems including applications, components, mapping, topology, data and data capture.		
GIS 202	Geographic Information Systems Software Applications I	3
<i>(Prerequisite: GIS 201)</i> Introduces the concepts of Geographic Information Systems with computer applications. Develops actual projects using the computer and related hardware. (2 theory + 3 lab hours week)		
GIS 203	Geographic Information Systems Software Applications II	3
<i>(Prerequisites: GIS 202, programming language or permission of program chair)</i> In this course students develop individual projects. (1 theory + 5 lab hours a week)		
GNHN 121A	General Honors: The Ancient Legacy	3
<i>(Prerequisites: See page ___ and permission of instructor)</i> Analysis of classic texts of the Greek, Hebrew, Roman, and Christian traditions: ideas about virtue, knowledge, politics, religious faith and education. <i>Fall only.</i>		
GNHN 121M	General Honors: The Modern Legacy	3
<i>(Prerequisites: See page ___ for details; permission of instructor)</i> Analysis of classic texts of Western culture from the Renaissance through the early 20 th century: ideas about the individual, society, state, history, nature, progress and religion. <i>Spring only.</i>		
GNHN 221	Topics in General Honors	3
<i>(Prerequisites: See page ___ for details; permission of instructor)</i> Various topics. See Schedule of Classes.		
HCT 102/102L	HCT Health Unit Coordinator Skills and Laboratory	2
<i>(Corequisite: HCT 104, HCT 130C)</i> Includes the basic skills of transcription of doctor's orders, computerized patient information systems, pharmacological terms and data forms are presented. (2 theory + 8 lab hours a week for 6 weeks) Course fee: \$10		
HCT 103/103L	HCT Special Skills Theory and Laboratory	4
<i>(Corequisite: HCT 104, HCT 120C)</i> Includes technical nursing skills such as sterile technique, urinary catheterizations, respiratory care, 12 lead EKG placement, basic venipuncture and blood collection techniques. (4 theory + 10 lab hours per week for 6 weeks) Uniform fee: \$40		

Course No.	Course Name	Credit Hours
HCT 104	HCT Communication Skills	2
Includes simple anatomy and physiology, medical terminology, communication skills and documentation techniques. (6 theory hours a week for 6 weeks)		
HCT 120C	HCT Multi-skilled Clinical	3
<i>(Corequisite: HCT 103/103L, HCT 104)</i> Apply special nursing skills in supervised clinical experiences in local hospitals. (30 clinical hours per week for 3 weeks)		
HCT 130C	HCT Health Unit Coordinating Clinical	1
<i>(Corequisites: HCT 102/102L, HCT 104)</i> Apply health unit coordinating information in supervised clinical experiences in local hospitals. (30 clinical hours a week for 2 weeks)		
HIST 101	Western Civilization I	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i> Study of events, personalities, issues, rises and falls, covering ancient times through 1648.		
HIST 102	Western Civilization II	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i> Exploration of such topics as colonialism, the age of revolutions, expansionism and the Great Wars from 1648 to the present.		
HIST 161	History of the United States I	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i> Survey of economic, political, intellectual and social development of the U.S. from 1492 to 1877.		
HIST 162	History of the United States II	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i> Continuation of HIST 161, covering 1865 to the present.		
HIST 230	Twentieth-Century Russia	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Survey of Russian History from czarist absolutism through communist totalitarianism to the tentative introduction of a pluralist society.		
HIST 240	Vietnam: War, Politics, and Culture	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Survey and analysis of causes of the war, military and political aspects, conduct and consequences of years of conflict in Vietnam; issues surrounding U.S. involvement in Vietnam and changes in the culture, institutions and political thought of the U.S. during and after the war.		
HIST 260	History of New Mexico	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Survey of New Mexico's history from 1500 to the present; contributions of and interactions among Native Americans, Hispanics, Anglos and others.		
HIST 270	The American West	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Study of American settlement west of the Mississippi River: exploration, fur trade,		

Course No.	Course Name	Credit Hours
	overland trails, ranching, mining, contacts with Native Americans, frontier violence and environmental issues.	
HIST 282	Modern Latin American History	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Introduction to Latin American history from the beginning of the revolutionary period in 1810 to the present.		
HIST 296	Topics in History	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101; a 100-level history course)</i> Various topics. See Schedule of Classes.		
HLTH 100	Introduction to Health Occupations	3
Explores various medical careers and introduces medical terminology and selected body systems. Course concepts integrated with the study of anatomy, physiology and patho-physiology. (3 theory hours + 1 lab hour a week)		
HT 101	Introduction to Hospitality and Tourism Today	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Organization and structure of hotels, restaurants and clubs, business ethics, franchising, management contracts and areas of management responsibility. Course equivalency AH&MA EI 103.		
HT 104	Tourism and the Hospitality Industry	3
<i>(Prerequisite: RDG 099 or equivalent)</i> How and why people travel, how travel acts to satisfy needs and wants and how marketing efforts can influence travel decisions. Course equivalency AH&MA EI 321.		
HT 106	Front Office Procedures	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Management concepts of front office functions and how front office activities affect other departments. Computer is used throughout every phase of the guest cycle. Course equivalency AH&MA EI 333.		
HT 108	Hospitality Supervision	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Managing people from a supervisor viewpoint, controlling labor costs, time management, increasing productivity and managing change. Course equivalency AH&MA EI 251.		
HT 121	Hotel/Motel Organization and Administration	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Management functions and responsibilities in hotel/motel administration, organization, communications, accounting, marketing and human relations. Course equivalency AH&MA EI 207.		
HT 124	Managing Quality in the Hospitality Industry	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Quality concepts and tools within the hospitality industry. High-performance team building, strategic career plans and managing organizational change. Course equivalency AH&MA EI 303.		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
HT 126	Hotel/Motel Facilities Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Physical plant management of a hotel or restaurant that includes the engineering and maintenance department. Course equivalency AH&MA EI 280.	
HT 128	Hotel/Motel Housekeeping Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Systematic approach to managing housekeeping operations in the hospitality industry. Course equivalency AH&MA EI 339.	
HT 130	Resort Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Principles and practices for successful resort management, resort history, planning and development, major recreational activities, food and beverage, housekeeping and risk management. Course equivalency AH&MA EI 424.	
HT 131	Club Management	3
	Introduces club management. Topics include club boards of directors, service excellence, leadership, strategic management, club marketing, food and beverage operations, financial and computer systems.	
HT 132	Hotel/Motel Human Resources Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> A systematic approach to human resources management in the hospitality industry, analyze contemporary issues, practices and trends within the hospitality industry. Course equivalency AH&MA EI 357.	
HT 134	Hospitality Energy and Water Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Energy and water problems facing the hospitality industry and the development and implementation of an energy and water management program. Course equivalency AH&MA EI 383.	
HT 136	Hospitality Industry Training	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Roles of supervision and training for the tourism and hospitality industry. Development of competent staff. Various types of training and learning techniques are emphasized. Course equivalency AH&MA EI 355.	
HT 138	Hospitality Industry Engineering Systems	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Managerial and technical functioning of the engineering/maintenance departments and the knowledge needed by managers at all levels to make appropriate and cost effective decisions. Course equivalency AH&MA EI 488.	
HT 141	Marketing of Hospitality Services	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Develop, implement and evaluate a marketing plan to identify and reach prospective customers using marketing tactics specific to hospitality services. Course equivalency AH&MA EI 371.	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
HT 144	Hospitality Sales and Marketing	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Marketing within the tourism and hospitality industry. Course includes target markets, marketing plans, advertising and promotion and identification of emerging trends in consumer preferences and tastes. Course equivalency AH&MA EI 4735.	
HT 146	Convention Management and Service	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Convention and group business market, marketing and sales strategies and techniques. Course equivalency AH&MA EI 478.	
HT 161	Hotel/Motel Food and Beverage Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Challenges and responsibilities involved in managing a food and beverage operation. Course equivalency AH&MA EI 240.	
HT 164	Food and Beverage Service	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Management of food and beverage service outlets, cafeterias, coffee shops, room service, banquet areas, dining rooms and basic service principles with emphasis on the special needs of guests. Course equivalency AH&MA EI 348.	
HT 166	Quality Sanitation Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Sanitation management and risk reduction techniques. Emphasis on quality sanitation and cost-control techniques, compliance strategies and sanitation control points. Course equivalency AH&MA EI 244.	
HT 168	Food and Beverage Controls	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Process of resource control to reduce costs in food and beverage operations. Maximizing revenue and profit levels, effective budgeting and staffing and satisfying the demand of guests. Course equivalency AH&MA EI 4645.	
HT 170	Food Production Principles	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Helps students master quality food production and standard recipes. Topics include creative food production techniques, baking, sanitation and effective food presentation. Course equivalency AH&MA EI 345.	
HT 172	Hospitality Purchasing Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Development and implementation of an effective purchasing program involving issues such as supplier relations, supplier selection, negotiation and evaluation. Course equivalency AH&MA EI 446.	
HT 201	Financial Accounting for the Hospitality Industry	3
	<i>(Prerequisite: ACCT 101A or permission of director)</i> A complete review of the fundamentals of financial accounting as it relates to tourism and hospitality. Techniques include projections for revenues, expenses,	

and net income, control of inventory and cash flow, and analysis and interpretation of financial statements. Course equivalency AH&MA EI 263.

HT 204 Managerial Accounting for the Hospitality Industry 3

(Prerequisite: ACCT 101A or permission of director) Skills necessary to be a decision-maker regarding financial information in the tourism and hospitality industry. Topics include on-target budgets, control of cash flow, projecting profit goals and creating a uniform system of accounts. Course equivalency AH&MA EI 462.

HT 206 Hospitality Industry Computer Systems 3

High-technology skills required in the tourism and hospitality industry. Reservations systems, room management and guest accounting, property management systems interfaces, food and beverage applications and management of information systems. Course equivalency AH&MA EI 4695.

HT 221 Hospitality Law 3

Various legal considerations facing the tourism and hospitality industry. Topics of study include contractual obligations, torts, labor law, ADA and privacy issues. Course equivalency AH&MA EI 390.

HT 224 Hotel/Motel Law 3

Legal problems associated with the hospitality industry and how important legal considerations can affect the industry. Course equivalency AH&MA EI 391.

HT 226 Hotel/Motel Security Management 3

Security program, security staffing, responsibilities in guest and asset protection, the accounting function and internal control, computer security and emergency procedures. Course equivalency AH&MA EI 386.

HT 250 Gaming Operations 3

(Prerequisite: HT 132 or permission of director) Examine and assess today's casino gaming structure and gaming behavior. Topics also include slot volatility, casino layout, and table games management.

HT 252 Casino Management 3

(Prerequisite: HT 132 or permission of director) Emphasizes the organization structure of casinos and their personnel. Also examines the strategies and procedures that need to be used to protect the integrity of table games and the role of surveillance in the prevention and detection of scam artists and cheaters.

HT 254 Gaming Controls 3

(Prerequisite: HT 132 or permission of director) Concentrates on regulatory systems and functions of gaming regulators to include conducting licensing and background investigations, criminal activity and law enforcement and procedures for audits.

HT 260 Golf Course Operations 3

(Prerequisite: HT 132 or permission of director) Organizational structure of golf courses and management operations. Topics include the role of directors of golf, head professionals, corporate management groups and public versus privately-owned operations.

HT 262 Golf Course Maintenance 3

(Prerequisite: HT 132 or permission of director) Examine day to day facility operations of golf courses. Topics include fleet management, practice facilities, landscaping requirements and course layout.

HT 295 Managerial Decisions in the Hospitality Industry 3

This course is a transitional step from the academic to the working world in the hospitality industry and focuses on communication, resourcefulness, professionalism, industry knowledge and decision-making. Students will be encouraged to make managerial judgments based upon case study work. Assessment is primarily based upon the steps taken to reach decisions.

HT 296 Topics Course 1-3

Current topics in hospitality and tourism.

HT 297 Special Problems Variable

(Prerequisite: permission of director) Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.

HT 298 Internship 4

(Prerequisite: permission of director) Students work a minimum of 150 hours at business or training-related supervised work stations. Students are not paid for their work but are supervised jointly by TVI and the company. (1 theory + 9 lab hours a week)

HT 299 Cooperative Education 4

(Prerequisite: permission of director) Students work a minimum of 150 hours at business or training-related supervised work stations. Student trainees are paid by the cooperating firm and supervised jointly by TVI and the employer. (1 theory + 9 lab hours a week)

HUC 101L Health Unit Clerk Theory and Lab 8

(Prerequisites: enrollment in the program, RDG 099 or equivalent, ENG 099 or equivalent, MATH 099 or equivalent; corequisite: HUC 131C) Includes medical terminology, simple anatomy, transcription of doctor's orders, computerized patient information systems, communication skills, ethical/legal behavior and the role of a health unit clerk. (5 theory + 20 lab hours a week for 9 weeks)

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
HUC 131C	Health Unit Clerk Clinical Practice	4
	<i>(Corequisite: HUC 101L)</i> Supervised clinical experience in local hospitals and hospital out-patient clinics. Uniform fee: \$30 (32 hours a week for 4 weeks and 20 hours for 1 week)	
HUM 111	Early World Civilizations	3
	<i>(Prerequisite: RDG 100)</i> Introduction to history, art, literature, religion, and ideas of early world civilizations: Egypt, Mesopotamia, India, China, Greece, Rome, Europe, Africa and pre-Columbian America.	
HUM 121	Modern World Civilizations	3
	<i>(Prerequisite: RDG 100)</i> Continuation of HUM 111. History, art, literature, music and ideas of world civilizations from the Renaissance to present.	
HUM 247	Topics in Humanities	3
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
IB 101	Introduction to International Business	3
	<i>Prerequisite: RDG 099 or equivalent)</i> Objectives, opportunities and challenges facing those who engage in business in foreign countries, foreign organizations, cultural dynamics, trade channels, the legal environment and political considerations.	
IB 201	International Marketing	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> A conceptual framework for analyzing marketing opportunities abroad and development and implementation of marketing mixes in different cultures and nations.	
IB 202	International Management	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Management practices within diverse international operations and understanding how to conduct business with people of different cultures.	
IB 203	International Finance and Trade	3
	<i>(Prerequisites: RDG 099 or equivalent, ACCT 101 and ACCT 102)</i> Overview of international finance with emphasis on the multinational corporation, foreign exchange risk management, investment analysis, capital asset management, working capital management, comparative advantage, trade restrictions, and a global overview of demographic, technical, social, political and business relationships.	
IB 205	Fundamentals of Exporting/Importing	3
	<i>(Prerequisite: RDG 099 or equivalent)</i> Forms, country regulations, methods of shipment, rates, documents, quotations, orders, banking, shipping and customs are covered.	
IWAP 198	Iron Worker Apprenticeship	30
	<i>(Prerequisite: current full-time employment in the iron worker industry or department approval)</i> This course consists of 450 hours of related classroom instruction	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
	covering orientation, safety, shop and trade math, tools, equipment, supplies, blueprint reading, layout and code interpretation.	
JOUR 151	Writing for the Media I	3
	<i>(Prerequisite: ENG 101 or permission of instructor)</i> Practical introduction to journalism, emphasizing journalistic conventions, news gathering and newswriting for print and broadcast media.	
JOUR 251	Writing for the Media II	3
	<i>(Prerequisite: JOUR 151 or permission of instructor)</i> Advanced study in journalistic conventions, gathering and writing news for print and broadcast media, including a variety of types of stories and legal and ethical topics.	
JOUR 298	Journalistic Practice	3
	<i>(Prerequisite: JOUR 151 and permission of instructor)</i> Internship in working with journalism professionals; conducting independent research and developing journalistic skills. Open to anyone but targeted for students working in the mass media.	
JUD 101	Introduction to Judicial Studies	3
	<i>(Prerequisites: ENG 099 or equivalent, RDG 099 or equivalent or approval of director)</i> Presents an overview of New Mexico judiciaries. Includes tracking of a civil and criminal case in each court. Familiarizes the student with the definition and use of legal terms. Offered as a distance learning course.	
JUD 102	Introduction to Court Operations and Ethics	1
	<i>(Prerequisites: ENG 099 or equivalent, RDG 099 or equivalent or approval of director)</i> Presented jointly by Judicial Education Center and TVI faculty. Focuses on ethical and specific court operation issues. Offered as a distance learning course.	
JUD 296	Topics Course	1-3
	<i>(Prerequisite: permission of director)</i> Current topics in judicial studies.	
JUD 297	Special Problems	Variable
	<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. An oral presentation may be required.	
JUD 298	Internship	4
	<i>(Prerequisites: JUD 101, JUD 102, COMM 221 or COMM 225, BA 150, ENG 101, elective and approval of director)</i> Students work a minimum of 150 hours at court sites. The student is jointly supervised by TVI and the employer.	
JUD 299	Cooperative Education	4
	<i>(Prerequisites: JUD 101, JUD 102, COMM 221 or COMM 225, BA 150, ENG 101, elective and approval of director)</i> Students work a minimum of 150 hours at court sites. The student is paid by the court and is jointly supervised by TVI and the employer.	

Course No.	Course Name	Credit Hours
LAS 101	Introduction to Legal Assistant Studies	3
	<i>(Prerequisites: ENG 100 or equivalent, RDG 100 or equivalent or approval of director. Recommended prerequisite: BA 150)</i> Definition and role of the legal assistant, ethical responsibilities, human relations, the legal system, legal research and analysis, the process of litigation, technology in the law and topics in substantive law.	
LAS 102	Business Organizations	3
	<i>(Prerequisites: ENG 100 or equivalent, RDG 100 or equivalent or approval of director. Recommended prerequisite: BA 150)</i> Various types of business entities including sole proprietorships, partnerships and corporations, agency principles, franchising and regulatory requirements.	
LAS 111	American Law and Ethics	3
	<i>(Prerequisites: ENG 101, LAS 101, LAS 102, LAS 123)</i> Origins, nature, history and structure of the American judicial system, principles of federalism under the Constitution and rules of professional conduct for lawyers.	
LAS 123	Torts	3
	<i>(Prerequisites: ENG 100 or equivalent, RDG 100 or equivalent or approval of director. Recommended prerequisite: BA 150)</i> Tort law, concentrating on negligence, products liability, non-physical injuries and their remedies and defenses and an overview of the trial process.	
LAS 124	Legal Research and Writing I	3
	<i>(Prerequisites: ENG 101, LAS 101, LAS 102, LAS 123)</i> Principles and skills of writing case briefs and legal memoranda, with a focus on basic legal research sources and techniques, including Westlaw and other computer-assisted legal research. Significant time is spent at the UNM law library.	
LAS 201	Contract Law	3
	<i>(Prerequisites: CIS 120 or CIS 123, ENG 102, LAS 111, LAS 124)</i> Introduction to the law of contracts, rights and responsibilities, consideration, types of contracts, remedies and assignments and the study, analysis and application of cases.	
LAS 203	Civil Litigation	3
	<i>(Prerequisites: CIS 120 or CIS 123, ENG 102, LAS 111, LAS 124)</i> Process of civil litigation from initial client contact through post-trial procedures. Rules of civil procedure and rules of the various courts are covered. Students develop a forms and procedures notebook.	
LAS 204	Legal Research and Writing II	3
	<i>(Prerequisites: CIS 120 or CIS 123, ENG 102, LAS 111, LAS 124)</i> Advanced legal research problems with focus on analysis and writing.	
LAS 206	Criminal Litigation	3
	<i>(Prerequisites: CIS 120 or CIS 123, ENG 102, LAS 111, LAS 124)</i> Process of criminal litigation from initial appearance through post-conviction proceedings.	

Course No.	Course Name	Credit Hours
	Drafting documents associated with the prosecution or defense at various stages. Review rules of criminal procedure of several courts and develop a forms and procedures notebook.	
LAS 221	Wills, Probate and Estate Planning	3
	<i>(Prerequisites: LAS 224, LAS 230 or LAS 243)</i> Drafting of wills and trusts, administration of estates, formal and informal probate proceedings and estate tax returns.	
LAS 223	Domestic Relations	3
	<i>(Prerequisites: LAS 224, LAS 230 or LAS 243, or approval of director)</i> Legal issues in family relations with emphasis on local procedures in the domestic relations court.	
LAS 224	Evidence	3
	<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204)</i> Issues of proof of facts in civil and criminal trials, with focus on the rules of evidence in state and federal courts, constitutional considerations, interviewing witnesses and organizing documents.	
LAS 225	Constitutional Law	3
	<i>(Prerequisites: LAS 224, LAS 230 or LAS 243, or approval of director)</i> Civil rights and liberties under the Constitution, free speech, religious freedom, racial discrimination, group rights, privacy and political participation.	
LAS 230	Civil Litigation II	3
	<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Students participate in a hypothetical case, completing more sophisticated tasks in civil litigation, evidence rules, concepts and objections.	
LAS 231	Computers in Law Practice	3
	<i>(Prerequisites: CIS 120 or CIS 123, LAS 201, LAS 203, or LAS 206, LAS 204)</i> Concepts and applications of computers in the areas of data organization, analysis and retrieval, legal forms, calendar and docket control, reports and searches. (2 theory + 3 lab hours a week) Course fee: \$15	
LAS 232	Personal Injury Law	3
	<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Medical aspects and documentation of personal injuries in tort, workers' compensation and Social Security disability law.	
LAS 233	Law Office Management	3
	<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Prepares students to coordinate and oversee the administrative needs of a small to medium firm. Includes managerial techniques, law office systems, revenue tracking, personnel management, crisis resolution and ethical requirements.	
LAS 234	Administrative Law	3
	<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Policies, practices and procedures of governmental agencies and state and local administrations.	

Course No.	Course Name	Credit Hours
LAS 236	Employment Law	3
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> History of discrimination law and current federal protections, the principle of equal treatment, litigation involving unequal treatment, seniority, sexual and racial harassment, pay equity, labor relations and remedies.		
LAS 242	Native American Law	3
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Introduction to Native American law to prepare students to work in private law firms that specialize in Native American law and in tribal courts and agencies.		
LAS 243	Criminal Litigation II	3
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Students participate in a hypothetical case and study, evidence rules, concepts and objections.		
LAS 244	Social Security Law	1
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Representing clients through the Social Security administrative process, disability evaluation, procedural issues and regulations, federal law and medical terminology. (5 weeks)		
LAS 245	Bankruptcy Law	1
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, or approval of director)</i> Introduction to bankruptcy practice, Bankruptcy Code and Rules of Bankruptcy Procedure. (5 weeks)		
LAS 294	Mediation	3
<i>(Prerequisites: LAS 224, LAS 230 or LAS 243, and approval of director)</i> Fundamental skills involved in mediating disputes. Training may be provided by local mediation organizations at a student rate. The student is jointly evaluated by the mediation trainer and the instructor. The course is offered subject to availability of trainers.		
LAS 295	Public Defender	3
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, and approval of director)</i> Students are assigned to a supervising attorney from the Public Defender's Office. Student works 135 hours and becomes familiar with all forms of case preparation with an emphasis on information gathering and investigation. The course is offered subject to availability of supervising attorney.		
LAS 296	Topics Course	3
<i>(Prerequisites: LAS 201, LAS 203 or LAS 206, LAS 204, and approval of director)</i> Current topics in the law.		
LAS 297	Special Problems	Variable
<i>(Prerequisite: permission of director)</i> Student and instructor define a specific problem in the area of the student's interest and directly related to the program. Student develops and executes a solution using analytical techniques to the problem. A legal research paper or project is completed. An oral presentation may be required.		

Course No.	Course Name	Credit Hours
LAS 298	Internship	4
<i>(Prerequisites: LAS 224, LAS 230 or LAS 243, all Arts & Sciences courses in the first four terms and approval of director)</i> Students perform a minimum of 150 hours of legal assistant assignments in legal environments. The student is jointly supervised by TVI and the supervising attorney.		
LAS 299	Cooperative Education	4
<i>(Prerequisites: LAS 224, LAS 230 or LAS 243, all Arts & Sciences courses in the first four terms and approval of director)</i> Students perform a minimum of 150 hours of legal assistant assignments in legal environments. Student is paid by the cooperating firm and is jointly supervised by TVI and the employer.		
LEOT 205L	Introduction to Laser Systems	4
<i>(Prerequisite: ELEC 111L)</i> Introduces the theory and operation of solid-state and gas lasers. Presents continuous wave and pulsed systems. Provides hands-on operation of various types of lasers in laboratory exercises. (4 theory + 1 lab hours a week)		
LEOT 206	Optics	6
<i>(Prerequisite: ELEC 111L)</i> Presents lenses and optical systems from the standpoints of geometric and wave optics through laboratory experiments. (4 theory + 6 lab hours a week)		
LEOT 217L	Advanced Laser Systems with Applications	6
<i>(Prerequisite: LEOT 205L)</i> Covers the applications of laser systems to industry. Includes laboratory experiences such as calibration techniques, interferometry, Q-switching and also requires writing a technical paper. (4 theory + 6 lab hours a week)		
LPNR 155L	Refresher Theory/Lab	7
<i>(Pre- or corequisite: LPNR 165C)</i> Covers medical—surgical and specialty—nursing trends, procedures and pharmacology. (11 theory + 3 lab hours a week) Course fee: \$20		
LPNR 165C	Refresher Clinical Experience	2
<i>(Prerequisite: must have had a valid LPN license; corequisite: LPNR 155L)</i> Supervised medical—surgical clinical experiences include administration of medications and patient care. This course is offered for credit/no credit. (17.6 clinical hours a week for 5 weeks)		
MATH 096	Special Topics	1–3
Presents various topics in developmental math.		
MATH 097	Introductory Mathematics	6
<i>(Prerequisite: appropriate placement by exam)</i> Provides individualized and small-group instruction in basic mathematics: whole numbers, fractions, decimals, percents and ratios and proportion. Satisfies prerequisite for MATH 099. (5 theory hours + 3 lab hours a week)		

Course No.	Course Name	Credit Hours
MATH 099	Basic College Mathematics	3
	<i>(Prerequisite: MATH 097 or equivalent)</i> Integrates topics from basic mathematics, geometry and algebra. Helps prepare students to enter programs in Business Occupations, Technologies, Trades & Service Occupations, Health Occupations or MATH 100A. (3 theory hours + 1 lab hour a week)	
MATH 099H	Basic Math for Health Occupations	3
	<i>(Prerequisite: MATH 097 or equivalent)</i> Covers material necessary for the Nursing/Medical Laboratory Technician basic math test: basic arithmetic, the metric system and other measuring systems. Meets prerequisite requirement for MATH 100A. (3 theory hours a week)	
MATH 100A	Algebraic Problem Solving I	3
	<i>(Prerequisite: MATH 099 or equivalent)</i> First of a two-course series in elementary algebra. Includes signed numbers, solving linear equations, formulas, graphing, solving systems of equations and applications. Satisfies prerequisite for MATH 100B, MATH 111 (MATH 100B is recommended) and MATH 119. (3 theory hours + 1 lab hour a week)	
MATH 100B	Algebraic Problem Solving II	3
	<i>(Prerequisite: MATH 100A)</i> Second of a two-course series in elementary algebra. Includes exponents and polynomials, rational expressions, factoring, roots and radicals and quadratics. Satisfies prerequisite for MATH 120 and is recommended for MATH 111. (3 theory hours + 1 lab hour a week)	
MATH 100	Algebraic Problem Solving	3
	<i>(Prerequisite: appropriate placement by exam)</i> Covers same material as MATH 100A and MATH 100B at a fast pace. One-term course designed for students with demonstrated ability in basic algebra. Satisfies prerequisite for MATH 111, MATH 119 and MATH 120. (3 theory hours + 1 lab hour a week)	
MATH 111	Mathematics for Elementary and Middle School Teachers I	3
	<i>(Prerequisite: MATH 100A)</i> Introduction to the intuitive and logical background of arithmetic, sets, arithmetic algorithms, bases, integer properties, number theory and problem solving.	
MATH 112	Mathematics for Elementary and Middle School Teachers II	3
	<i>(Prerequisite: MATH 111)</i> Continuation of MATH 111. Properties of rational and irrational numbers, real numbers as fractions and decimals, intuitive geometry and measurement.	
MATH 119	Methods of Problem Solving	4
	<i>(Prerequisite: MATH 100A)</i> Introduction to strategies for solving mathematical problems relying heavily on data patterns; sequences, set theory, combinatorics, probability, descriptive statistics, linear and quadratic modeling.	

Course No.	Course Name	Credit Hours
MATH 120	Intermediate Algebra	4
	<i>(Prerequisite: MATH 100B)</i> Emphasis on linear equations and inequalities, polynomials, exponents, rational expressions and equations, radical expressions and equations, quadratic equations; introduction to graphing and functions.	
MATH 121	College Algebra	3
	<i>(Prerequisite: MATH 120)</i> Focus on functions and their graphs; investigation of linear, quadratic, polynomial, rational, exponential and logarithmic functions.	
MATH 123	Trigonometry	3
	<i>(Prerequisite: MATH 121 or 150)</i> Focus on use of graphing calculators to study trigonometric and inverse trigonometric functions; radian and degree measure, basic trigonometric identities, polar coordinates, solving triangles and other applications.	
MATH 129	The Art of Mathematics	3
	<i>(Prerequisite: MATH 119 or 120)</i> Illustration of the creative nature of mathematics through problems, readings, discussions of topics such as set theory, logic, number theory, basic geometry and probability.	
MATH 145	Introduction to Probability and Statistics	3
	<i>(Prerequisite: MATH 119 or 120)</i> Introduction to basic concepts in probability and statistics—simple data analysis and descriptive statistics, probability and probability models, sampling and statistical inference— with applications from varied fields.	
MATH 150	Advanced Algebra	4
	<i>(Prerequisite: MATH 121)</i> Exploration of polynomial, rational, exponential and logarithmic functions using graphing calculators.	
MATH 162	Calculus I	4
	<i>(Prerequisites: MATH 123, and 150)</i> Introduction to derivatives and definite integrals using graphing calculators: differentiation, antidifferentiation, limits, extrema, curve sketching and applications.	
MATH 163	Calculus II	4
	<i>(Prerequisite: MATH 162)</i> Continuation of MATH 162. Use of graphing calculators to cover integration techniques, numerical integration, improper integrals, some differential equations, series and applications.	
MATH 180	Elements of Calculus I	3
	<i>(Prerequisite: MATH 121 or 150)</i> Focus on use of graphing calculators to study limits, derivatives, applications to graphing, extrema, antiderivatives, definite integrals. Emphasis on business and biological applications.	
MATH 181	Elements of Calculus II	3
	<i>(Prerequisite: MATH 180)</i> Continuation of MATH 180. Substitution, integration by parts, numerical integration; introduction to multivariate calculus and some differential equations.	

Course No.	Course Name	Credit Hours
MATH 215	Mathematics for Elementary and Middle School Teachers III	3
	<i>(Prerequisite: MATH 112)</i> Continuation of MATH 112. Topics from later elementary and middle school curricula: probability, descriptive statistics, algebra, coordinate geometry, logic and LOGO software.	
MATH 245	Fundamentals of Probability and Statistics	3
	<i>(Prerequisite: MATH 180)</i> Introduction to basic ideas in probability and statistics: descriptive statistics, sample spaces, random variables, probability densities, expectation, variance, confidence intervals, hypothesis testing, correlation, simple regression analysis. Emphasis on business applications.	
MATH 264	Calculus III	4
	<i>(Prerequisite: MATH 163)</i> Continuation of MATH 163. Study of multivariate and vector calculus: level curves and surfaces, partial derivatives, gradients, tangent planes, directional derivatives, multiple integrals, cylindrical and spherical coordinates, applications.	
MATH 296	Topics in Mathematics	3
	<i>(Prerequisite: varies)</i> Various topics. See Schedule of Classes.	
MATT 101	Metals Math I	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents whole numbers, fractions and decimals, shop geometry and algebra, formulas and equations, and the Pythagorean theorem. Emphasizes is on developing problem solving skills.	
MATT 102	Metals Blueprint Reading I	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers the interpretation of basic manufacturing and fabrication drawings, terminology, orthographic projection, sectional views, dimensions, tolerances, symbols and drawing standards.	
MATT 103L	Basic Lathe Principles	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces basic engine lathe principles and operations. Includes safety, setup, speeds and feeds, workholding devices and tooling, facing, turning, chamfering, shouldering and tailstock operations. (5 lab hours a week = 75 lab hours a term)	
MATT 104L	Basic Milling Machine Principles	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces basic milling machine principles and operations. Covers safety, basic setup, speeds and feeds, tooling, workholding devices, squaring, step milling, drilling, reaming, and tapping. (5 lab hours a week = 75 lab hours a term)	

Course No.	Course Name	Credit Hours
MATT 105L	Basic Supporting Machine Tool Principles	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces drill press, bandsaw, pedestal grinder and handtool principles and operations. Covers safety, care and use of hand tools, layout, toolbit grinding and machine care and maintenance. (5 lab hours a week = 75 lab hours a term)	
MATT 108L	Basic Measurement and Inspection	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Provides practical exercises in basic metal shop measurement and inspection techniques, including use of rules, calipers, micrometers, comparison instruments and inspection reports. (5 lab hours a week = 75 lab hours a term)	
MATT 111	Metals Math II	2
	<i>(Prerequisite: MATT 101 or department approval)</i> Provides basic shop algebra, formulas, geometry and triangulation. Covers calculation of areas, volumes, material requirements, angles, applied trigonometry and advanced shop math applications.	
MATT 113	Metals Blueprint Reading II	2
	<i>(Prerequisite: MATT 102 or department approval)</i> Following a review of basic shop blueprint interpretation, provides interpretation of complex manufacturing and fabrication drawings including sectional views, tolerances and allowances, surface texture and assembly drawings.	
MATT 117L	Intermediate Lathe Principles	2
	<i>(Prerequisite: MATT 103L or department approval)</i> Reviews basic engine lathe principles and operations with training in safety, precision turning and facing, production turning, taper turning, carbide tooling applications, power cutoff, boring, single point threading and basic CNC turning set up and operation. (5 lab hours a week = 75 lab hours a term)	
MATT 120L	Intermediate Milling Machine Principles	2
	<i>(Prerequisite: MATT 104L or department approval)</i> Following a review of basic milling principles and operations, training offers safety, climb and conventional milling methods, hole production, slotting, pocket milling, rotary table work and basic CNC milling set-up and operation. (5 lab hours a week = 75 lab hours a term)	
MATT 121L	Intermediate Supporting Machine Tool Principles	2
	<i>(Prerequisite: MATT 105L or department approval)</i> Offers concentrated training in safety, surface grinding, tool reconditioning, production support and advanced quality assurance methods. (5 lab hours a week = 75 lab hours a term)	
MATT 122L	Computer Numerical Control I	2
	<i>(Prerequisites: MATT 101 and 102 or department approval)</i> Presents basic computer skills necessary to program, set up and operate CNC milling and turning centers. Covers CNC manuscript and tape preparation,	

program troubleshooting and editing, tooling and workholding and fundamentals of CNC operation. (5 lab hours a week = 75 lab hours a term)

MATT 173 Machine Tool Technology Skills 3
Covers basic knowledge and upgrade skills in the machine tool industry including safety, hand tools, lathe, mill, bench work, measurement, blueprint reading and shop math. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

MATT 174 Advanced Machine Tool Technology Skills 3
(Prerequisite: MATT 173 or department approval) Offers advanced instruction in safety, lathe, mill, blueprint reading and shop math. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

MATT 202 Metallurgy 2
Introduces the basic science of metals including structure, properties, alloying, weldability and testing of ferrous and non-ferrous metals with emphasis on machining performance and applications.

MATT 208L Advanced Lathe Principles 2
(Prerequisite: MATT 117L or department approval) Reviews carbide tooling applications, boring and threading. Covers safety, setup and use of soft jaws and advanced production and CNC turning techniques. (5 lab hours a week = 75 lab hours a term)

MATT 214 Machine Tool Technology CAD 2
Presents computer-assisted drafting as applied in machine tool technology on hardware typically found in the machine shop with specific instruction offered in CADKEY software.

MATT 216L Advanced Milling Machine Principles 2
(Prerequisite: MATT 120L or department approval) Reviews rotary table work and locational operations. Offers safety, carbide shell mills, complex milling set-ups and advanced production and CNC milling techniques. (5 lab hours a week = 75 lab hours a term)

MATT 217L Advanced Supporting Machine Tool Principles 2
(Prerequisite: MATT 121L or department approval) Covers production support, safety, advanced surface grinding set ups and operations, assembly techniques, production inspection techniques to ANSI standards and CNC set-up and operation for production applications. (5 lab hours a week = 75 lab hours a term)

MATT 218L Computer Numerical Control II 2
(Prerequisite: MATT 122L or department approval) Reviews programming, manuscript and tape preparation, and editing. Presents various programming languages, subroutines and interactive graphic programming. (5 lab hours a week = 75 lab hours a term)

MATT 296 Special Topics 1-6
(Prerequisite: department approval) Enables students to pursue studies in specialized areas. This class may also be taken as an independent or guided study, as a refresher course or to sharpen skills prior to employer exams.

MH 101 Manufactured Housing Customer Service 2
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides training in interpersonal skills needed to support successful and professional interaction between manufactured housing employees and customers. (2 theory hours a week = 30 theory hours a term)

MH 102 Manufactured Housing Code and Safety 2
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides training in mechanical, building, HUD and Manufactured Housing Division codes as well as safety and OSHA compliance as applied to the manufactured housing industry. (2 theory hours a week = 30 theory hours a term)

MH 103L Manufactured Housing Electrical 1
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides instruction and hands-on training in electrical safety, OSHA rules and regulations, NEC, HUD and manufactured housing code interpretation, devices, wiring and materials to complete the electrical installation for manufactured housing. (2.5 lab hours a week = 37.5 lab hours a term)

MH 104 Manufactured Housing Plumbing 2
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides instruction and hands-on training in plumbing, safety, tools, fixtures and materials to complete the plumbing and gas installation for manufactured housing. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)

MH 105 Manufactured Housing Set-up 3
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides instruction and practice in set-up, leveling, blocking and general carpentry work to meet the requirements for N.M. Manufactured Housing Division MHD 1, 2 and 3 licenses. Safety is emphasized. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

MH 106 Manufactured Housing Appliance Service 2
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Provides instruction and hands-on experience in repair, installation and maintenance of appliances normally found in manufactured housing. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)

Course No.	Course Name	Credit Hours
MLT 110L	Introduction to Medical Technology	3
	<i>(Prerequisite: program director approval)</i> Introduces basic medical laboratory techniques emphasizing urinalysis. Includes principles and procedures of chemical and microscopic analysis of urine, basic immunology, instrumentation, quality control and safety procedures. (2 theory + 3 lab hours a week) Uniform fee: \$31	
MLT 114	Immunology	1
	<i>(Pre- or corequisite: MLT 110L; corequisites: 114C, 201L)</i> Study of the basics of the body's immune response and introduction to diseases involving deficiencies in the immune system. (2 hours a week for 8 weeks)	
MLT 114C	Clinical Immunology	1
	<i>(Pre- or corequisite: MLT 110L; corequisites: 114, 201L)</i> Perform serological testing on specimens from hospital patients using current methodologies. (6 hours a week for 8 weeks) Course fee: \$20	
MLT 151C	Clinical Experience Urinalysis/Phlebotomy	3
	<i>(Prerequisite: department approval)</i> Practice the procedures learned in urinalysis and phlebotomy at affiliated hospitals. This is a credit/no credit course. Uniform fee: \$7.50 (9 hours a week)	
MLT 201L	Clinical Chemistry	7
	<i>(Pre- or corequisite: MLT 110L; corequisites: 114/114C, 204L)</i> Presents the principles and methods used in testing for chemical components in blood and other body fluids including basic instrumentation and laboratory experiences for performing the basic procedures used in a clinical chemistry laboratory. (5 theory + 6 lab hours a week) Course fee: \$20	
MLT 203L	Clinical Hematology/Coagulation	6
	<i>(Prerequisites: MLT 110L, 114/114C, 201L, 204L; pre- or corequisite: MLT 151C; corequisite: 206/206C)</i> Includes normal and abnormal blood cell enumeration and morphology and coagulation mechanisms including the principles of routine procedures performed in the hematology laboratory. (4 theory + 6 lab hours a week) Course fee: \$20	
MLT 204L	Clinical Immunohematology	3
	<i>(Pre- or corequisites: MLT 110L, 114/114C, 201L)</i> Study theory principles and test methods for determining blood group typing, antibody detection and identification, cross matching and component therapy. (4 theory + 6 lab hours a week for 7 weeks) Course fee: \$20	
MLT 205C	Clinical Experience	12
	<i>(Prerequisites: MLT 110L, 114/114C, 151C, 201L, 203L, 204L, 206/206C; pre- or corequisite: Hum/SS elective)</i> Supervised clinical practice takes place in the clinical laboratories of affiliated hospitals with rotations through hematology/coagulation, microbiology, chemistry and Immunohematology departments. This course has a web-based component. This is a credit/no credit course. (40 hours a week for 12 weeks)	

Course No.	Course Name	Credit Hours
MLT 206	MLT Microbiology	3
	<i>(Prerequisite: MLT 110L, 114/114C, 201L, 204L; pre- or corequisite: MLT 151C; corequisites: 203L, 206C)</i> Includes clinical bacteriology, mycology and parasitology including macroscopic and microscopic identification of organisms, antibiotics susceptibility testing, life cycles, and pathology and etiology of various diseases. Virology is introduced.	
MLT 206C	Clinical Microbiology	3
	<i>(Prerequisite: MLT 110L, 114/114C, 201L, 204L; pre- or corequisite: MLT 151C; corequisites: 203L, 206)</i> Identifies the microorganisms of clinical significance from specimens obtained from hospital patients. Students utilize current methodologies and identification techniques. Course fee: \$20 (9 lab hours a weeks)	
MLT 296/296A	Topics in Laboratory Medicine	1-4
	<i>(Prerequisites: may vary)</i> Various topics in laboratory medicine are presented. Uniform fee: \$31	
MT 105	Manufacturing Concepts	4
	<i>(Prerequisites: ENG 101, CP 176)</i> Develops teamwork skills and presents a variety of manufacturing concepts such as creative problem solving, project management, effective meetings, effective communication, and theory of constraints. (3 theory + 3 lab hours week)	
MT 205	Applied Science	6
	<i>(Prerequisites: ELEC 104)</i> Presents basic principles of chemistry and physics as they apply to high tech industries. Explores the application of topics such as work and energy, temperature and heat, chemical bonds and organic chemistry. (4 theory + 6 lab hours week)	
MT 280	Introduction to Quality Assurance	3
	Examines the philosophies of Deming, Juran and Taguchi as they apply to quality in the workplace. Study Total Quality Management (TQM), self-directed teams and teamwork. (3 theory hours a week)	
MT 281	Statistical Controls	3
	<i>(Prerequisite: MATH 100B or higher)</i> Features the use of hardware and software as they apply to quality assurance. Study design of experiments, sampling techniques, SPC, control chart application and development and process reliability. (2 theory + 3 lab hours a week)	
MUS 103	Fundamentals of Music	4
	<i>(Recommended: Experience with voice or instrument)</i> Introduction to fundamentals of music: notation, scales, key signatures, and intervals. Introduction to aural comprehension through singing intervals, scales, triads, dictating simple rhythmic and melodic patterns.	
MUS 139	Music Appreciation I	3
	Study of basic musical elements and their development from early Greece to the Classical period. Nontechnical; required attendance at live musical performances.	

Course No.	Course Name	Credit Hours
MUS 140	Music Appreciation II	3
	Study of symphonic music, chamber music, and vocal literature from the Romantic period to the 20 th century. Nontechnical; required attendance at live musical performances.	
MUS 296	Topics in Music	3
	Various topics. See Schedule of Classes.	
NA 101	Nursing Assistant Theory	4
	<i>(Prerequisites: enrollment in the program, RDG 099 or equivalent, ENG 099 or equivalent, MATH 099 or equivalent; corequisites: NA 110L, 131, 161, 171)</i> During the first nine weeks students attend classes covering basic nursing skills used in health care agencies and homes. Other topics covered are medical terminology, home care issues and community resources.	
NA 110L	Nursing Assistant Lab	1
	<i>(Corequisites: NA 101, 131, 161, 171)</i> Practice basic nursing skills in the laboratory. (5 lab hours a week for 5 weeks) Uniform fee: \$35	
NA 121C	Nursing Assistant Clinical Experiences	3
	Requires successful completion of NA 101, 110L, 131, 161 and 171 before going to clinical. These last six weeks of the program include supervised practice of nursing skills in hospitals, long-term care centers and patient homes throughout the city. (20 hours a week for 6 weeks)	
NA 131	Health Communications	3
	<i>(Corequisite: NA 101, 110L, 161, 171)</i> Includes introductions to anatomy and physiology and nutrition. Covers basic structure and normal functions of the body systems and some of the aging problems which can occur in those systems.	
NA 161	Nursing Assistant Issues	2
	<i>(Corequisite: NA 101, 110L, 131, 171)</i> Covers special topics such as nutrition labs, blood pressure practice, lab practice, and lab finals.	
NA 171	Nursing Assistant-Applications	3
	<i>(Corequisite: NA 101, 110L, 121C, 131, 161)</i> Reviews basic math for part of the term with practice working selected problems. Tests cover eight areas of concentration. The other part of the term deals with geriatric issues and the application of nursing assistant theory to them.	
NA 296	Nursing Assistant Topics	1-3
	Various topics. See Schedule of Classes.	
NAHA 102L	Nursing Home/Home Health Attendant Theory/Lab	5
	<i>(Corequisite: NAHA 102C)</i> Includes basic nursing skills necessary to work in a nursing home or private home. Personal care and restorative care skills are taught in a lab setting. (11 theory + 9 lab hours a week for 5 weeks) Uniform fee: \$22	

Course No.	Course Name	Credit Hours
NAHA 102C	Nursing Home/Home Health Attendant Clinical	1
	<i>(Corequisite: NAHA 102L)</i> Practice basic nursing skills in a supervised long-term care setting. (25 hours a week for 2 weeks)	
NURS 115	Dosage Calculations	1
	<i>(Prerequisites: Nursing Basic Math Test and nursing director approval)</i> Presents methods of dosage calculations for oral and parental medications, including intravenous therapy and pediatric dosages. Offered for CR/NC only.	
NURS 126C	Foundations of Nursing	9
	<i>(Prerequisites: nursing director approval, BIO 237/247L, ENG 101, PSY 105, NUTR 244; pre- or corequisites: NURS 115, BIO 238/248L, PSY 220)</i> Reviews the foundations of nursing including an introduction to the nursing process with a focus on assessment. Develops key concepts of basic and higher order needs within a caring framework. Clinical: assessment of healthy clients across the lifespan and measures to maintain/promote mental and physical health. (5 hours theory + 12 hours clinical) Uniform fee: \$176	
NURS 127C	Family Nursing I	9
	<i>(Prerequisites: BIO 238/248L, NURS 115, 126C, PSY 220; pre- or corequisites: BIO 239/239L, PHIL 245M)</i> Using nursing process study the child-bearing and child-rearing family. Clinical: experiences with maternity and pediatric clients in community and hospital settings. (5 hours theory + 12 hours clinical) Course fee: \$56	
NURS 202C	Concepts for Transition Students	2
	<i>(ADN Students: prerequisites: ENG 101, PSY 105, BIO 238/248L, NUTR 244 and credit for NURS 126C. PN Students: pre- or corequisites: ENG 101, NUTR 244, BIO 238/248L and credit for PN 126C)</i> Introduces the conceptual framework of the nursing program and study of the nursing process. In-depth focus on assessment across the life span. Required for all applicants who seek advanced placement in the practical nurse or associate degree program. Spring, and summer. (1 hour theory + 3 hours clinical)	
NURS 226C	Family Nursing II	10
	<i>(Prerequisites: Calculation Exam II with score of 90% or better, NURS 127C, BIO 238/248L, BIO 239/239L; pre- or corequisites: NURS 231; corequisite: NURS 227)</i> Continued study of the family, using nursing process, focusing on the impact of illness. Clinical: medical and surgical clients in community and hospital settings. (5 hours theory + 15 hours clinical) Course fee: \$56	
NURS 227C	Manager of Care	1
	<i>(Prerequisites: NURS 127C; Corequisite: NURS 226C)</i> Introduces management principles to prepare the ADN nurse to manage care of groups of clients. Clinical application in NURS 226C.	

Course No.	Course Name	Credit Hours
NURS 231	Pharmacology in Nursing	3
<i>(Prerequisites: Permission of director of nursing, BIO 238/248L, NURS 126C; pre- or corequisite: BIO 239/239L)</i> Introduces the concepts necessary for nursing judgment in the use of chemical agents and the theoretical base required to administer medications. Information covers drugs in current use, including pharmacokinetics, pharmacodynamics, therapeutic uses, adverse reactions, precautions and contraindications.		
NURS 247C	Complex Health Problems in the Family	9
<i>(Prerequisites: Calculation Exam III with score of 90% or better, NURS 226C, NURS 227C, NURS 231, elective)</i> Study of the impact of complex, multi-system health problems on individuals and families. Includes psychiatric disorders, cultural factors and practice issues. Clinical: providing and managing care of clients across the life span. (4 hours theory + 15 hours clinical) Course fee: \$56		
NURS 280	Critical Care Internship Theory	8
<i>(Prerequisite: Nursing director approval; corequisite: NURS 281C)</i> Presents theory of critical care nursing within a nursing process framework. Monitoring of dysrhythmias, hemodynamics and ventilators. Effect of major critical conditions within a systems framework with consideration of multi-system failure.		
NURS 281C	Critical Care Internship Clinical	3
<i>(Prerequisite: Nursing director approval; corequisite: NURS 280)</i> Application of critical care theory in campus lab through simulation and in the clinical area with a minimum of 96 hours preceptorship (average of 9 clinical hours a week) Course fee: \$15		
NURS 296	Topics in Nursing	1–10
<i>(Prerequisites: may vary)</i> Various topics in nursing are presented.		
NUTR 120	Personal and Practical Nutrition	3
Practical study of topics in nutrition of concern to the consumer: individual nutrient needs, fitness, disease prevention and weight control. Emphasis on changes of nutritional needs through the life cycle.		
NUTR 244	Human Nutrition	3
<i>(Prerequisite: Any one of the following: CHEM 111/112L or 121/121L; BIO 121/121L or 123/124L)</i> Study of nutrition as it affects normal body function and total health. Designed for health majors who will use this information in various professions.		
NUTR 293	Topics in Nutrition	3
Various topics. See Schedule of Classes.		
OCC 096	Special Topics	1–3
Presents various occupational topics.		
PC 201	Electromechanical Systems	3
<i>(Prerequisites: ELEC 114L, 118L)</i> Use of electromechanical systems donated by local industries to expose students to equipment schematics, maintenance procedures and troubleshooting. Practice preventive and		

Course No.	Course Name	Credit Hours
corrective maintenance. (2 theory + 3 lab hours a week) Course fee: \$25		
PC 203	PLC Theory and Applications	2
<i>(Prerequisites: ELEC 203L, 205L or permission of director)</i> Includes ladder logic diagrams, PLC hardware, software and applications of PLCs. A series of PLC lab exercises and a PLC project are required. (7.5 wks; 2 theory hours + 3 lab hours per week) Course fee: \$25		
PC 204	Feedback Theory and Applications	2
<i>(Prerequisites: ELEC 203L, 205L)</i> Includes various types of feedback systems, components and operation. Study the applications of such systems. (7.5 wks; 2 theory hours + 3 lab hours per week) Course fee: \$25		
PC 205	Sensor Theory and Applications	2
<i>(Prerequisites: ELEC 203L, 205L)</i> Includes force, photonic and temperature sensors. A project designed and constructed by students is required. (7.5 wks; 2 theory + 3 lab hours per week) Course fee: \$25		
PC 206	CIM Theory and Applications	2
<i>(Prerequisites: ELEC 203L, 205L)</i> Includes theory of computer integrated manufacturing (CIM), CIM systems used in industry and the programming and operation of such systems. (7.5 wks; 2 theory + 3 lab hours per week) Course fee: \$25		
PC 207	Mobile Robot Design and Construction	2
<i>(Prerequisites: ELEC 203L, 205L)</i> Includes micro-controllers, DC motors, and motor drive circuitry and communications technology. A project designed and constructed by students is required. (7.5 wks; 2 theory + 3 lab hours per week) Course fee: \$25		
PC 208	Industrial Robot Theory and Applications	2
<i>(Prerequisites: ELEC 203L, 205L)</i> Includes theory, operation and maintenance procedures of industrial robots along with a project (utilizing an industrial robot system) designed and constructed by students. (7.5 wks; 2 theory + 3 lab hours per week) Course fee: \$25		
PC 211	Power RF	2
<i>(Prerequisite: ELEC 114L)</i> Presents RF energy and its applications in manufacturing industries. Includes plasma physics, RF applications, safety, RF generators, transmission lines and RF interference. (1 theory + 3 lab hours a week) Course fee: \$25		
PC 212L	Vacuum Systems	2
<i>(Prerequisite: ELEC 118L)</i> Introduces vacuum technology and vacuum systems. Includes gas laws and properties, operation and applications of vacuum pumps, gauges and valves and systems leak detection. (1 theory + 3 lab hours a week) Course fee: \$25		
PHIL 110	Introduction to Philosophical Thought	3
<i>(Prerequisite: RDG 100. Recommended: ENG 101)</i> Survey of the philosophical issues addressed by great thinkers of the western tradition. Questions about		

Course No.	Course Name	Credit Hours
	knowledge, reality, goodness, the idea of God, government and society, and the self.	
PHIL 156	Logic and Critical Thinking	3
	<i>(Prerequisite: RDG 100)</i> Introduction to the tools of reason helpful in everyday decision-making, skills for argument analyses and effective communication of ideas. Survey of informal fallacies and formal deductive systems.	
PHIL 241	Topics in Philosophy	3
	<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.	
PHIL 245 B, M, T	Ethics	3
	<i>(Prerequisite: RDG 100)</i> Study and discussion of ethical problems that may arise in specific fields. <i>B: Business; M: Biomedical; T: Technology.</i>	
PHIL 250	Philosophy of Education	3
	<i>(Prerequisite: RDG 100)</i> Critical examination of classical and contemporary educational theories, and philosophical movements in education. Emphasis on the relationship of philosophical theory and educational practice.	
PHIL 257	Formal Logic	3
	<i>(Prerequisite: RDG 100)</i> Introduction to formal deductive logic: propositional logic, truth tables, argument forms and fallacies, predicate (symbolic) logic and method of proof.	
PHLB 101	Introduction to Phlebotomy	4
	<i>(Prerequisites: enrollment criteria for the program, RDG 099 or equivalent, ENG 099 or equivalent, MATH 099 or equivalent; corequisite: PHLB 122C)</i> Includes basic anatomy and physiology and procedures for collecting blood from patients. (10 theory + 15 lab hours a week for 4 weeks)	
PHLB 122C	Clinical Phlebotomy	3
	<i>(Prerequisite: CPR certification; corequisite: PHLB 101)</i> Supervised clinical course in which students practice phlebotomy skills and apply the theory learned in class. Uniform fee: \$40. (30 hours a week for 4 weeks)	
PHYS 102	Introduction to Physics	3
	<i>(Prerequisite: RDG 100. Recommended : MATH 100B)</i> Survey of basic concepts and phenomena of physics.	
PHYS 151	Physics I	4
	<i>(Prerequisites: RDG 100 and MATH 121, 150 or 180. Corequisite: PHYS 151L. Recommended: Working knowledge of trigonometry)</i> Non-calculus treatment of mechanics, sound and heat. Satisfies pre-medical, pre-dental, pre-optometry and certain Technologies requirements.	
PHYS 151L	Physics I Laboratory	1
	<i>(Prerequisite: RDG 100. Corequisite: PHYS 151)</i> Focus on real-time experiments in mechanics, heat and sound. Computer data collection and analysis.	
PHYS 152	Physics II	4
	<i>(Prerequisites: RDG 100 and PHYS 151. Corequisite: PHYS 152L)</i> Focus on non-calculus treatment of electricity, magnetism and optics.	

Course No.	Course Name	Credit Hours
PHYS 152L	Physics II Laboratory	1
	<i>(Prerequisite: RDG 100. Corequisite: PHYS 152)</i> Emphasis on experiments in electricity, magnetism, and optics. Some computer simulations and data collection.	
PHYS 160	General Physics I	4
	<i>(Prerequisite: RDG 100. Pre- or Corequisite: Math 162. Recommended: Coenrollment in PHYS 160L)</i> Calculus-based study of mechanics and sound waves for science and engineering students.	
PHYS 160L	General Physics Laboratory I	1
	<i>(Recommended: Coenrollment in PHYS 160)</i> Focus on real-time experiments in mechanics and waves. Computer data collection and analysis. Course fee: \$20.	
PHYS 161	General Physics II	4
	<i>(Prerequisite: PHYS 160. Pre- or Corequisite: MATH 163)</i> Focus on calculus-based treatment of heat, electricity and magnetism for science and engineering students.	
PHYS 161L	General Physics Laboratory II	1
	<i>(Pre- or corequisite: PHYS 161)</i> Emphasis on experiments in electricity, magnetism, optics. Course fee: \$20.	
PHYS 262	General Physics III	4
	<i>(Prerequisite: PHYS 161. Pre- or Corequisite: Math 264)</i> Emphasis on calculus-based treatment of optics and topics in modern physics for science and engineering students.	
PLAP 198	Plumbing Apprenticeship	40-50
	<i>(Prerequisite: current full-time employment in the plumbing industry)</i> Consists of 600 hours of classroom instruction covering safety, shop and trade math, plumbing processes, blueprint reading and mechanical code (plumbing) interpretation.	
PLMB 101	Basic Plumbing Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers procedures for installing plastic, steel, cast iron and copper pipe. Stresses installation, addition, repair, replacement or maintenance of plumbing and gas piping systems and personal safety.	
PLMB 101L	Basic Plumbing Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers identification of plumbing fittings and pipe nomenclature. Also covers the correct procedures for soldering copper pipe, threading and cutting iron pipe, flaring copper pipe and making diagonal offsets. (5 lab hours a week = 75 lab hours a term)	
PLMB 102	Plumbing Systems Theory	1
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers the design of drainage and vent systems, sprinkler and water supply systems as well as methods to rough in and top out of an installation.	
PLMB 102L	Plumbing Systems Lab	2
	<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Introduces correct	

procedures for installation, repair and service of drainage and vent, sprinkler and water supply systems. Covers rough-ins and top outs. (5 lab hours a week = 75 lab hours a term)

PLMB 103 Heating Control Circuitry Theory 1
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Covers troubleshooting of heating control circuitry, control theory, terminology and symbols with emphasis on electrical control devices from various manufacturers.

PLMB 103L Heating Control Circuitry Lab 1
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Focuses on installation and troubleshooting of heating control circuitry. Stresses the correct use of electrical test instruments as is safety. (3 lab hours a week = 45 lab hours a term)

PLMB 105 Plumbing Blueprint Reading I 1
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Includes sketching and reading blueprint working drawings for new construction, maintenance and remodeling.

PLMB 106L Backflow Prevention 2
(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval) Focuses on identification, testing and repair of backflow prevention assemblies. (5 lab hours a week = 75 lab hours a term)

PLMB 111 Systems Layout/Maintenance Theory 1
(Prerequisites: PLMB 103L, 106L or department approval) Covers design, layout and installation of water, soil and vent lines; inspecting and testing systems; maintenance and repair of plumbing, solar systems and yard irrigation; and swimming pool, hot tub and spa installation and service.

PLMB 111L Systems Layout Lab 2
(Pre- or corequisites: PLMB 106L, 111 or department approval) Emphasizes layout and installation of water, soil and vent lines, related fixtures and fittings, inspecting and testing systems and soldering. (5 lab hours a week = 75 lab hours a term)

PLMB 112L Systems Maintenance Lab 2
(Pre- or corequisites: PLMB 111, 111L or department approval) Covers maintenance and repair of plumbing and yard irrigation as well as swimming pool, hot tub and spa installation and service. (5 lab hours a week = 75 lab hours a term)

PLMB 115 Plumbing Blueprint Reading II 2
(Prerequisite: PLMB 105 or department approval) Includes drawings, isometric pipe layouts, interpreting blueprints, application of plumbing codes, and planning and coordinating the job.

PLMB 116L Building Maintenance, Heating and Cooling 1
(Pre- or corequisites: PLMB 101L, 103L or department approval) Presents requirements for installation, pre-fabrication and maintenance of heating, sheet metal, cooling and ventilating systems. (3 lab hours a week = 45 lab hours a term)

PLMB 170 Mechanical Trades Math 1
Includes basic arithmetic, whole numbers, fractions and decimals. Covers volumes, weight measurements and basic algebra as it applies to electricity.

PLMB 171 Journeyman Preparation 3
Covers licensing requirements, rules and regulations and the Uniform Plumbing Code for persons interested in becoming journey level plumbers and natural gas fitters in New Mexico.

PLMB 173L Orbital Welding Systems 3
(Pre- or corequisite: PLMB 101 or department approval) Presents pipe ultra-pure stainless steel welding. Students operate, lay out and analyze welding applications for testing sequences. ((1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

PLMB 174L Polyvinylidene Fluoride (PVDF) Welding Systems 3
(Prerequisite: PLMB 173L) Presents Asahi Butt Fusion System, UF 2000 infra-red fusion and bead and crevice free system. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)

PLMB 296 Special Topics 1-6
Enables students currently in the plumbing trades to pursue studies in specialized areas. This class also may be taken as an independent or guided study or as a refresher to sharpen skills prior to licensing.

PN 126C Foundations of Practical Nursing 9
(Prerequisites: nursing director approval, BIO 237/247L, ENG 101; corequisites: NURS 115, BIO 238/248L, NUTR 244) Study the foundations of practical nursing including an introduction to nursing process. Develops key concepts of basic and higher order needs within a caring framework. Clinical focuses on assessment of healthy clients across the life-span and measures to maintain/promote mental and physical health. (5 hours theory +12 hours clinical) Uniform fee: \$166

PN 127C Family Nursing 8
(Prerequisites: BIO 238/248L, NURS 115, PN 126C, NUTR 244; pre- or corequisites: PSY 105, PN 131) Using nursing process, study of the child-bearing and child-rearing family. Clinical focuses on maternity and pediatric clients in community and hospital settings. Includes nursing care of clients with prevalent oncological conditions across the life-span. (4 hours theory, 12 hours clinical) Course fee: \$56

Course No.	Course Name	Credit Hours
PN 128C	Nursing of the Family with Complex Problems	13
	<i>(Prerequisites: Calculation Exam II with score of 90% or better, PN 127C, PN 131, PSY 105; corequisite PN 129)</i> Continued study of the family, using nursing process, focusing on the impact of illness on clients and their families. Clinical focuses on medical and surgical clients with multisystem health problems in acute and long term health care settings. (8 hours theory, 15 hours clinical) Course fee: \$56	
PN 129	Trends and Issues in Practical Nursing	1
	<i>(Corequisite: PN 128C)</i> The role of the practical nurse in relation to legal/ethical issues, professional relationships, the Nurse Practice Act and the changing health care delivery system.	
PN 131	Pharmacology	3
	<i>(Prerequisites: BIO 238/248L, PN 126C; pre- or corequisite: PN 127C)</i> Focus is on the effects of commonly used drugs on various body systems. Dosages, application, side effects and/or toxicity, laboratory tests performed to monitor actions, and effects of specific drugs are discussed integrating nursing implications and responsibilities. Course fee: \$10	
PRNS 255L	Perioperative Nurse Specialist Theory/Lab	8
	<i>(Prerequisite: Program Chair approval; corequisite: PRNS 265C)</i> Presents history and philosophy of perioperative nursing, the surgical environment, perioperative care, intraoperative care and postoperative care. Skills are practiced in a mock operating room laboratory. (6 theory + 6 lab hours a week for 12 weeks) Course fee: \$35	
PRNS 265C	Perioperative Nurse Specialist Clinical Experience	6
	<i>(Corequisite: PRNS 255L)</i> Application of new and previously learned concepts to perioperative nursing in hospital operating rooms. (24 clinical hours a week for 12 weeks)	
PSCI 110	The Political World	3
	Introduction to politics, emphasizing how people can understand their own political systems and those of others.	
PSCI 200	U.S. Politics	3
	Survey of American politics: theory of democracy and political institutions, governmental branches and their bureaucracies.	
PSCI 210	State and Local Politics	3
	Analysis of state and local politics, using New Mexico and other states as examples. <i>Fall, spring only.</i>	
PSCI 220	Comparative Government and Politics	3
	Comparison of the roles of public opinion, electoral systems, political parties, interest groups, governmental institutions and policy performance in European	

Course No.	Course Name	Credit Hours
	democracies, developing third world nations and communist political systems.	
PSCI 240	International Politics	3
	Study of various significant factors in international politics: nationalism, ideology, deterrence, balance of power, international law, and international conflict and collaboration.	
PSCI 260	Political Ideas	3
	Survey of classical and contemporary political ideas and ideologies; introduction to many of the enduring political issues which are presented in descriptive, analytical and normative terms. <i>Fall only.</i>	
PSCI 296	Topics in Political Science	3
	Various topics. See Schedule of Classes.	
PSY 105	Introduction to Psychology	3
	<i>(Prerequisite: RDG 100)</i> Focus on psychology as the scientific study of behavior and mental processes: methodology, psychobiology, learning, memory, personality, psychological disorders, therapy, personality and social psychology.	
PSY 200	Statistical Principles	3
	<i>(Prerequisite: PSY 105. Recommended: MATH 119 or 120)</i> Study and application of basic statistics principles for the description and interpretation of psychological data: frequency distributions, graphing, measures of central tendency, variability, regression, correlation, hypothesis testing and analysis of variance. <i>Fall, spring only.</i>	
PSY 220	Developmental Psychology	3
	<i>(Prerequisite: PSY 105)</i> Study of physical, social, emotional and intellectual development across the life span. Emphasis on research and applications.	
PSY 230	Psychology of Adjustment	3
	<i>(Prerequisite: RDG 100)</i> Focus on normal human adjustment and coping in personal and interpersonal arenas: stress and mood management, self-esteem, social adjustment, communication and relationships.	
PSY 231	Human Sexuality	3
	<i>(Prerequisite: RDG 100. Recommended: PSY 105)</i> Study of physiological, cultural, social, and individual factors that influence sexual behavior, sex roles and sex identity.	
PSY 232	Clinical Psychology	3
	<i>(Prerequisite: PSY 105)</i> Focus on clinical psychology as a profession and research area: psychometrics and assessment, systems of prevention and therapy, forensic psychology, program evaluation, professional and ethical issues.	
PSY 233	Psychology and Film	3
	<i>(Prerequisite: RDG 100. Recommended: PSY 105)</i> Study of psychiatric disorders as portrayed in films, offering an opportunity to see realistic manifestations of "madness," and cinema's ability to reflect and to affect perceptions of mental illness and treatment.	

Course No.	Course Name	Credit Hours
PSY 240	Brain and Behavior	3
<i>(Prerequisite: PSY 105 or BIO 121/121L)</i> Survey of the role of the nervous system in the control of behavior and mental processes. <i>Fall only.</i>		
PSY 260	Psychology of Learning and Memory	3
<i>(Prerequisite: PSY 105)</i> Study of learning in the laboratory, ranging from simple processes such as conditioning to complex ones such as transfer, memory and concept formulation. <i>Fall only.</i>		
PSY 265	Cognitive Psychology	3
<i>(Prerequisite: PSY 105)</i> Focus on theories and research on various mental processes: memory (encoding, storage and retrieval), attention, comprehension, categorization, reasoning, problem solving, language and motor skills. <i>Spring only.</i>		
PSY 271	Social Psychology	3
<i>(Prerequisite: PSY 105 or SOC 101)</i> Introduction to social interaction: communication, perception of the self and others, attitudes and leadership. <i>Spring only.</i>		
PSY 296	Topics in Psychology	3
<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.		
PSY 299	Death and Dying	3
<i>(Prerequisite: RDG 100)</i> Study of psychological, emotional, and sociological aspects of death in American culture.		
PT 110	Introduction to Pharmacy Technology	3
<i>(Prerequisites: RDG 099 or equivalent, ENG 099 or equivalent, MATH 100A or equivalent, CHEM 111/112L; corequisites: PT 111L, 115, 116; pre-or corequisites: CSCI 101 or BA 150 or CP 176)</i> Provides a discussion of the pharmacy technician's role, the Pharmacy Practice Act, ethics, prescription preparation and institutional drug distribution systems.		
PT 111L	Pharmacy Technician Lab I	2
<i>(Prerequisites: CHEM 111/112L; corequisites: PT 110, 115, 116; pre- or corequisites: CSCI 101 or BA 150 or CP 176)</i> Provides in the campus lab opportunities for skill development in prescription preparation including oral, parenteral and IV preparation. Medical terminology and infection control, including universal precautions, are also emphasized. (6 hours a week)		
PT 115	Pharmacy Technician Anatomy and Physiology	3
<i>(Prerequisites: CHEM 111/112L; corequisites: PT 110, 111L, 116; pre- or corequisites: CSCI 101 or BA 150 or CP 176)</i> Study the structures and function of the human body. Prevents common disease entities related to body systems are presented.		

Course No.	Course Name	Credit Hours
PT 116	Pharmacy Calculations	3
<i>(Prerequisites: CHEM 111/112L; corequisites: PT 110, 111L, 115; pre- or corequisites: CSCI 101 or BA 150 or CP 176)</i> Provides skills in pharmaceutical calculations for oral, parenteral and IV preparations.		
PT 120	Advanced Pharmacy Technology	3
<i>(Prerequisites: PT 110, 111L, 115, 116, CHEM 111/112L, CSCI 101 or BA 150 or CP 176; corequisites: PT 121L, 122C, 125; pre- or corequisite: COMM 221)</i> Covers compounding and packaging of drugs, preparation of intravenous admixtures, inventory maintenance, clerical skills and institutional drug distribution processes. Uniform fee: \$35		
PT 121L	Pharmacy Technician Lab II	3
<i>(Corequisites: PT 120, 122C, 125; pre- or corequisite: COMM 221)</i> Provides opportunities for skill development in compounding/reconstitution, labeling, aseptic technique, use of laminar flow hoods and use of the computer. (9 hours a week)		
PT 122C	Pharmacy Technician Practicum	5
<i>(Prerequisite: director approval; Corequisites: PT 120, 121L, 125; pre- or corequisite: COMM 221)</i> Students are assigned to institutional and community pharmacies for practical experience in applying what they have learned in classrooms and labs. (15 hours a week)		
PT 125	Pharmacology for Pharmacy Technicians	3
<i>(Corequisites: PT 120, 121L, 122C; pre- or corequisite: COMM 221)</i> This is a study of therapeutic drug categories.		
QUFD 101	Quantity Food Theory I	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents food service tools, equipment, cooking methods and techniques, weights and measures, food costs and other math. Emphasizes breakfast through lunch operations.		
QUFD 103L	Buffet Procedure	2
<i>(Pre- or corequisites: FSMG 101A, 101B, QUFD 101 or department approval)</i> Covers buffet procedures, catering, introductory serving techniques, customer service and cashing. (5 lab hours a week = 75 lab hours a term)		
QUFD 105L	Breakfast/Lunch Production	2
<i>(Pre- or corequisites: FSMG 101A, 101B, QUFD 101 or department approval)</i> Covers breakfast/lunch preparation techniques and methods of cooking. (5 lab hours a week = 75 lab hours a term)		
QUFD 107L	Cold Food Preparation I	2
<i>(Pre- or corequisites: FSMG 101A, 101B, QUFD 101 or department approval)</i> Covers garnishing, Garde Manger, appetizers, hors d'oeuvres, salads, dressings, sandwiches, fruits and vegetable preparation. (5 lab hours a week = 75 lab hours a term)		

Course No.	Course Name	Credit Hours
QUFD 108L	Quantity Food Production	2
<i>(Pre- or corequisites: FSMG 101A, 101B, QUFD 101 or department approval)</i> Covers food service entrees, starches, vegetables, stocks, soups, and basic sauce production. Applies methods of cooking. (5 lab hours a week = 75 lab hours a term)		
QUFD 111	Quantity Food Theory II	2
<i>(Prerequisites: QUFD 101, 102, 103L, 104L, 105L, 106L, BKNG 102 or department approval)</i> Covers cooking methods, fabrication, presentation, stocks, sauces, soups, beef, poultry, seafood, game, lamb, pork, potatoes, grains, pasta and vegetables/fruits. Stresses professionalism.		
QUFD 112L	Dining Room Skills	2
<i>(Pre- or corequisite: QUFD 111 or department approval)</i> Includes table setting, napkin folding, table service, money management, managing a staff in the dining room, banquet service, restaurant service and operation, and customer service. (5 lab hours a week = 75 lab hours a term)		
QUFD 113L	Cold Preparation II	2
<i>(Pre- or corequisite: QUFD 111 or department approval)</i> Practices safe, sanitary and creative pantry techniques. Produce appetizers, salads, dressings, fruits/vegetables and starches for the Student Specialties Restaurant. (5 lab hours a week = 75 lab hours a term)		
QUFD 114L	Stock and Sauces	2
<i>(Pre- or corequisite: QUFD 111 or department approval)</i> Prepare white and brown stocks from scratch and prepare primary and secondary sauces and soups from these stocks. Practice is provided for using various thickening agents. (5 lab hours a week = 75 lab hours a term)		
QUFD 115L	Entree (Meat and Seafood) Preparation	2
<i>(Pre- or corequisite: QUFD 111 or department approval)</i> Includes production of fabricated cuts of meats and a variety of cooking methods for wholesome, flavorful entrees for the Student Specialties Restaurant. Stresses plate presentation and timely production. (5 lab hours a week = 75 lab hours a term)		
RDG 096	Special Topics	1–3
Presents various topics for reading instruction.		
RDG 099	Reading Improvement	3
<i>(Prerequisite: ENG 098 or equivalent)</i> Introduces reading skills required for success in comprehending ideas and applying critical thinking skills to materials in the workplace and the academic setting. (3 theory hours + 1 hour lab a week)		

Course No.	Course Name	Credit Hours
RDG 100	Reading and Critical Thinking	3
<i>(Prerequisite: RDG 099 or equivalent)</i> Focuses on reading required for success in college. Students work on comprehension, problem solving, note-taking, summarizing and computer-assisted research skills. (3 theory hours + 1 lab hour a week)		
RLGN 107	Living World Religions	3
<i>(Prerequisite: RDG 100)</i> Introduction to the academic study of religion, focusing on major world religions: religions of antiquity, Hinduism, Buddhism, Taoism, Judaism, Christianity, Islam and religion in primal cultures.		
RLGN 247	Topics in Religious Studies	3
<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.		
RNR 255L	Refresher Theory/Lab	7
<i>(Pre- or corequisite: RNR 265C)</i> Covers medical-surgical and specialty nursing, pharmacology and procedures. (11 theory + 3 lab hours a week for 8 weeks) Course fee: \$20		
RNR 265C	Refresher Clinical Experience	2
<i>(Prerequisite: must have had a valid RN license; corequisite: RNR 255L)</i> Supervised medical-surgical clinical experiences include total patient care. This course is offered for credit/no credit. (17.6 clinical hours a week for 5 weeks)		
RT 110	Respiratory Therapy Principles and Practices I	3
<i>(Prerequisites: Program director approval and BIO 123/124L, ENG 101, MATH 119, PSY 105 or SOC 101; corequisites: RT 115L, 121C, 131, CHEM 111/112L)</i> Introduces respiratory therapy as a health sciences profession. Includes cardiopulmonary assessment, medical gas administration, oxygen therapy, microbiology, infection control, equipment maintenance, incentive breathing exercises and chest physiotherapy. Uniform fee: \$90		
RT 111	Respiratory Therapy Principles and Practices II	3
<i>(Prerequisites: CHEM 111/112L, RT 110, 115L, 121C, 131; corequisites: RT 116L, 122C, 133, BIO 237/247L)</i> Emphasizes positive pressure breathing treatments, airway management, pulmonary function testing, arterial puncture and blood gas analysis. Includes administering medicated aerosol therapy.		
RT 115L	Respiratory Therapy Lab I	1
<i>(Corequisites: RT 110, RT 121C, RT 131)</i> Practice basic respiratory care procedures learned in RT 110, using state-of-the-art equipment in the learning laboratory under simulated patient situations. (3 hours a week)		
RT 116L	Respiratory Therapy Lab II	1
<i>(Corequisites: RT 111, 122C, 133)</i> Practice respiratory care procedures learned in RT 111 using equipment in simulated patient situations.		

Course No.	Course Name	Credit Hours
*RT 121C	Clinical Experiences I	5
<i>(Corequisites: RT 110, 115L, 131)</i> Apply knowledge and skills in supervised patient care experiences in the hospital setting. (15 hours a week)		
*RT 122C	Clinical Experiences II	5
<i>(Corequisites: RT 111, 116L, 133)</i> Supervised clinical experiences in area hospitals and healthcare facilities. (15 hours a week)		
RT 131	Physics of Respiratory Therapy	3
<i>(Corequisites: RT 110, 115L, 121C)</i> Covers basic concepts of physics related to physiology of the lungs, gas laws, gas flow and mechanics of breathing. Concepts are applied to operation of respiratory therapy equipment.		
RT 133	Pharmacology of Respiratory Therapy	3
<i>(Corequisites: RT 111, 116L, 122C)</i> Presents concepts and principles of pharmacologic agents used in cardiopulmonary care. Includes study of biologic interactions, dosage calculations, side effects, indications for medication, therapeutic, diagnostic procedures and ethical and legal issues.		
RT 210	Advanced Respiratory Therapy I	3
<i>(Prerequisites: RT 111, 116L, 122C, 133; corequisites: RT 215L, 221C, PHIL 245M)</i> Presents cardiopulmonary assessment and diagnosis for the advanced practitioner including correlation of cardiopulmonary anatomy, physiology and pathophysiology with evaluation of cardiac and pulmonary function. Course fee: \$20		
RT 211	Advanced Respiratory Therapy II	3
<i>(Prerequisites: RT 210, 215L, 221C; corequisites: RT 216L, 222C, BIO 238/248L)</i> Presents concepts of adult critical care medicine including adult intensive care and pathophysiology of diseases.		
RT 212	Advanced Respiratory Therapy III	3
<i>(Prerequisites: RT 211, 216L, 222C; corequisites: RT 217L, 223C, BIO 239/239L)</i> Presents concepts of critical care medicine for children and infants including the concepts of rehabilitative practice and home healthcare for patients with chronic cardiopulmonary diseases.		
RT 215L	Advanced Respiratory Therapy Lab I	1
<i>(Corequisites: RT 210, 221C)</i> Presents clinical assessment techniques, cardiopulmonary anatomy and physiology, pulmonary function testing hemodynamic monitoring and advanced cardiac life support in a state of the art learning laboratory. (3 hours a week)		

Course No.	Course Name	Credit Hours
RT 216L	Advanced Respiratory Therapy Lab II	1
<i>(Corequisites: RT 211, 222C)</i> Practice of mechanical ventilation procedures related to critical care medicine for adults using patient and computer simulation in the learning laboratory. (3 hours a week)		
RT 217L	Advanced Respiratory Therapy Lab III	1
<i>(Corequisites: RT 212, 223C)</i> Practice of mechanical ventilation procedures related to critical care medicine for children and infants using patient and computer simulations in the learning laboratory. (3 hours a week)		
*RT 221C	Advanced Clinical Experiences I	5
<i>(Corequisites: RT 210, 215L)</i> Supervised application of advanced respiratory care in clinical settings with emphasis on problem-solving and decision-making skills. Experiences include cardiopulmonary function and evaluation activities. (15 hours a week)		
*RT 222C	Advanced Clinical Experiences II	5
<i>(Corequisites: RT 211, 216L)</i> Supervised application of respiratory care in adult critical care environments with emphasis on problem-solving and decision-making skills, patient evaluation skills and the evaluation of therapeutic care plans. (15 hours a week)		
*RT 223C	Advanced Clinical Experiences III	5
<i>(Corequisites: RT 212, 217L)</i> Supervised application of respiratory care in pediatric and neonatal critical care environments and for home healthcare and pulmonary rehabilitation. Includes independent study project in an area of respiratory care. Course fee: \$125 (15 hours a week)		
RT 296	Special Topics in Respiratory Care	3-6
<i>(Prerequisite: permission of program director)</i> Participation in supervised learning of advanced, specialized practices including cardiopulmonary diagnostics, and specialized prenatal/pediatric or adult critical care.		
RT 297	Special Problems	3-6
<i>(Prerequisite: permission of program director)</i> Provides opportunity for independent study in respiratory care such as preparation for licensing/credentialing exams.		
RT 298	Internship	3-6
<i>(Prerequisite: AS RT Graduate and permission of program director)</i> This course will allow graduates of the AS RT program to continue in conjunction with the UNM Health Sciences Center. Graduates will participate in nationally funded research projects that explore diagnosis, treatment, education and research.		

***RT 121C, RT 122C, RT 221C, RT 222C, and RT 223C:**

Lectures on the pathophysiology of the cardiopulmonary system given by the program's medical director and physicians from the UNM School of Medicine or other physicians in the community. Students participate in problem-based learning sessions with physicians to discuss clinical cases. Requirements include case studies, article reviews and pathology reports, oral reports and interactions with patients and physicians in clinical settings and during physician rounds.

Course No.	Course Name	Credit Hours
SALE 101L	Sales-Cashier Lab	9
	<i>(Prerequisite: placement test)</i> Fundamentals of merchandising math, cashiering, retail salesmanship, human relations, customer service, and basic computer skills. Tutorials and self-paced modules are also available. (5 theory + 10 lab hours a week)	
SALE 299	Cooperative Education	4
	Students work a minimum of 150 hours at retailing-related, instructor-approved work stations. Student trainee is paid by the cooperating employer and supervised jointly by TVI and the employer. There are times when it is impossible to place all students in work stations because of local employment requirements. (1 theory + 9 lab hours a week)	
SCIE 096	Special Topics	1-3
	Presents various topics in developmental science.	
SCSE 170L	Small Engine Skills Improvement I	3
	Study the diagnosis and repair of small four-stroke air-cooled engines, safety, engine identification, special tools, ignition, cooling, lubrication, engine rebuilding and fuel systems. (15 theory + 75 lab hours a term)	
SCSE 171L	Small Engine Skills Improvement II	3
	<i>(Prerequisite: SCSE 170L or department approval)</i> Presents safe practices in the diagnosis and repair of small two-stroke powered equipment, chain saw service and chain sharpening, blower and line trimmer service. (15 theory + 75 lab hours a term)	
SMAP 198	Sheet Metal Apprenticeship	40
	<i>(Prerequisite: current full-time employment in the sheet metal industry or department approval)</i> Consists of 600 hours of related classroom instruction. Instruction covers safety, shop and trade math, sheet metal processes for shop machinery, triangulation lay-out, radial line layout, parallel line layout, blueprint reading and Sheet Metal and Air Conditioning National Assn. (SMACNA) manuals.	
SMT 201	Semiconductor Manufacturing Technology I Theory	2
	<i>(Prerequisites: ELEC 103L, 105L, MT 205; corequisite: SMT 201L)</i> Introduces integrated circuit manufacturing, including the basics of semiconductor materials and devices, integrated circuits, cleanroom technology and topics in wafer processing. Laboratory exercises are conducted in a cleanroom. (2 theory hours week)	
SMT 201L	Semiconductor Manufacturing Technology I Lab	1
	<i>(Pre- or corequisite: SMT 201)</i> This is the lab course for SMT 201. Students meet once per week. (3 lab hours a week) Course fee: \$60	
SMT 211	Semiconductor Manufacturing Technology II Theory	2
	<i>(Prerequisites: SMT 201, 201L, ELEC 114L; corequisite: SMT 211L)</i> Expands the topics presented in SMT 201 with greater detail. Includes the process steps to construct and test simple PMOS field effect transistor devices in laboratory experiments. (2 theory hours a week)	

Course No.	Course Name	Credit Hours
SMT 211L	Semiconductor Manufacturing Technology II Lab	1
	<i>(Pre- or corequisite: SMT 211)</i> This is the lab course for SMT 211. (3 lab hours a week) Course fee: \$60	
SOC 101	Introduction to Sociology	3
	<i>(Prerequisite: RDG 100)</i> Study of basic concepts and theories of contemporary sociology: culture, socialization, social groups, deviance, sexuality, race and ethnicity, gender, age, family, medicine and religion.	
SOC 111	Criminal Justice System	3
	<i>(Prerequisites: RDG 100 and SOC 101)</i> Overview of criminal justice processes. Exploration of law, law enforcement, prosecution, defense, trial, and sentencing.	
SOC 211	Social Problems	3
	<i>(Prerequisite: SOC 101)</i> Analysis from a sociological perspective of a range of problems in contemporary U.S. society: racism and prejudice, crime and delinquency, mental disorders, family changes, poverty and substance abuse.	
SOC 212	Juvenile Delinquency	3
	<i>(Prerequisite: SOC 101)</i> Introduction to and survey of theories of juvenile delinquency, child abuse, the juvenile justice system, probation, treatment and corrections for juveniles.	
SOC 213	Deviant Behavior	3
	<i>(Prerequisite: SOC 101)</i> Focus on theories of deviance and examination of behaviors such as rape, murder, theft, drug use, alcoholism, prostitution, mental disorders and suicide.	
SOC 214	Sociology of Corrections	3
	<i>(Prerequisite: SOC 101)</i> Emphasis on theory, practice and legal basis for investigation, treatment and supervision of offenders in custody, on probation or parole; history of penology and its relationship to various penal philosophies.	
SOC 215	Criminology	3
	<i>(Prerequisite: SOC 101)</i> Study and analysis of causes of crime with emphasis on sociological factors, the various faces of crime, the criminal past and present and criminology theory.	
SOC 216	Ethnic and Minority Groups	3
	<i>(Prerequisite: SOC 101)</i> Study of relationships among majority and minority and ethnic groups: prejudice, discrimination, stereotyping, pluralism and social mobility.	
SOC 225	Sociology of the Family	3
	<i>(Prerequisite: SOC 101)</i> Survey of major theories of the family and the status of the modern family in an era of varied family forms.	
SOC 230	Society and Personality	3
	<i>(Prerequisite: SOC 101 or PSY 105)</i> Introduction of topics in social psychology, such as personality theories, concepts of self, human relationships, small group dynamics and organizational theories.	

Course No.	Course Name	Credit Hours
SOC 235	The Sociology of Gender	3
<i>(Prerequisite: SOC 101 or PSY 105)</i> Focus on the nature and content of gender in the U.S.; theoretical viewpoints from the social sciences applied to issues of socialization, family, culture, media, education, work, politics and economics; the impact of gender differentiation on personality development and social interaction.		
SOC 280	Social Science Research	3
<i>(Prerequisite: SOC 101)</i> Introduction to methodology of experimental science applied to social sciences, including the study of methodologies of data collection and analysis using library resources, including legal citations.		
SOC 296	Topics in Sociology	3
<i>(Prerequisite: RDG 100)</i> Various topics. See Schedule of Classes.		
SPAN 101	Beginning Spanish I	4
<i>(Prerequisite: RDG 100)</i> Introduction to listening, speaking, and grammatical skills for students with no previous exposure to Spanish.		
SPAN 102	Beginning Spanish II	4
<i>(Prerequisite: SPAN 101)</i> Continuation of SPAN 101: listening, speaking, grammatical skills.		
SPAN 103	Beginning Spanish I Conversation	3
<i>(Pre- or corequisite: SPAN 102 or permission of instructor)</i> Skills approach to basic conversational skills and practice speaking Spanish at the beginning level.		
SPAN 111	Beginning Spanish I for Bilinguals	4
<i>(Prerequisite: RDG 100)</i> Skills approach to Spanish for students with some native listening and speaking knowledge of Spanish; designed to enrich and expand skills within the student's dialect. Language arts approach: listening, speaking, reading and writing with a focus on Mexican culture. Students must be able to communicate and read in Spanish. Course includes exposure to important grammatical concepts.		
SPAN 112	Beginning Spanish II for Bilinguals	4
<i>(Prerequisite: SPAN 101 or 111)</i> Continuation of SPAN 111, expanding the language and grammatical concepts. Emphasis on Latin American culture. Language arts approach: listening, speaking, reading and writing.		
SPAN 201	Intermediate Spanish I	3
<i>(Prerequisite: SPAN 102)</i> Review of grammar and expansion of conversational skills while developing reading proficiency.		
SPAN 202	Intermediate Spanish II	3
<i>(Prerequisite: SPAN 201)</i> Continuation of SPAN 201, providing conversational activities and emphasis on writing skills.		
SPAN 203	Intermediate Spanish II Conversation	3
<i>(Pre- or Corequisite: SPAN 202 or permission of instructor)</i> Focus on increasing skills in speaking Spanish.		

Course No.	Course Name	Credit Hours
SPAN 275	Accelerated Beginning Spanish	4
<i>(Prerequisite: RDG 100 or permission of instructor)</i> SPAN 101 and 102 in one term; recommended for language enthusiasts or those who have had exposure to Spanish either in the home or from previous study.		
SPAN 276	Accelerated Intermediate Spanish	3
<i>(Prerequisite: SPAN 102 or SPAN 275 or permission of instructor)</i> SPAN 201 and 202 in one term; recommended for language enthusiasts or those who have had exposure to Spanish either in the home or from previous study.		
SPAN 277	The Art and Skill of Translation	3
<i>(Prerequisite: SPAN 202 or equivalent, or permission of instructor)</i> Introduction to the art and profession of translation with a focus on practical translation problems in Spanish. Texts from the areas of journalism, law, business and literature are translated from Spanish to English and from English to Spanish. Class conducted in Spanish.		
SPAN 280	Readings in Spanish Literature	3
<i>(Prerequisite: SPAN 202 or SPAN 276 or permission of instructor)</i> Study and analysis of selected readings from literature written in Spanish by Spanish and Spanish-American authors.		
SPAN 296	Topics in Spanish	3
<i>(Prerequisite: varies)</i> Various topics. See Schedule of Classes.		
SSKL 096	Special Topics	1–3
Presents various topics in study skills.		
SSKL 100	Student Success	3
Provides an opportunity to learn and adopt methods to promote success in school. Includes time management, test taking, study reading and other school success strategies. (3 theory hours + 1 lab hour a week)		
SSKL 211	Employment Skills—General	1
Prepare job portfolios that include cover letter, resumés and follow-up letters. Covers employer expectations, interview techniques and communicating with business and industry. Employability and job retention skills are stressed.		
ST 110	Beginning Surgical Technology I	4
<i>(Prerequisites: BIO 123/124L, BIO 136/139L or BIO 237/247L, COMM 221, ENG 101 or 102 corequisites: ST 112L, 114C)</i> Includes scope of practice, technologist role, medical ethics, medical terminology, basic principles of aseptic technique and anatomy and physiology applied to surgical procedures.		
ST 112L	Surgical Technology Lab	3
<i>(Corequisites: ST 110, 114C)</i> Provides opportunity to practice clinical skills and competencies developed in the classroom. Includes surgical technique (setting up the sterile field, scrubbing, gowning and gloving) and standards of practice. (24 hours a week for 6 weeks)		

Course No.	Course Name	Credit Hours
ST 114C	Surgical Technology Clinical I	6
<i>(Corequisites: ST 110, 112L)</i> Application of surgical procedure theory and skills in the clinical setting. Course fee: \$35 (32 hours a week for 9 weeks)		
ST 120	Advanced Surgical Technology II	4
<i>(Prerequisites: ST 110, 112L, 114C; corequisite: ST 124C)</i> Continues surgical technology theory with a focus on general and specialty surgical procedures.		
ST 124C	Surgical Technology Clinical II	8
<i>(Corequisite: ST 120)</i> Continued application of surgical procedure theory and skills in the clinical setting with emphasis on a variety of specialty areas. (24 hours per week for 15 weeks)		
THEA 122	Introduction to Theater	3
<i>(Recommended: ENG 101)</i> Study of the history and role of theater past and present: the nature of theater art, theater traditions ranging from the Ancient Greeks to Epic Theater, elements that make up a production.		
THEA 296	Topics in Theater	3
Various topics. See Schedule of classes.		
TRDR 101	Basic Operational Theory	6
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Covers the fundamentals of control systems, hours of service requirements, trip planning, public and employer relations, accident procedures, defensive driving techniques, written commercial driver's licensing needs and state and federal regulations governing the professional truck driver. (22.5 theory hours a week for 4 weeks)		
TRDR 102L	Basic Operational Lab	4
<i>(Pre- or corequisites: TRDR 101, CDL learner's permit or department approval)</i> Includes on-the-driving-range vehicle inspection, basic control, shifting, backing, coupling and uncoupling, hazard perception, visual search, speed and space management, preventive maintenance and handling cargo. Course fee: \$200. (25 lab hours a week for 6 weeks = 150 lab hours a term)		
TRDR 103L	Advanced Operational Practices	3
<i>(Prerequisites: TRDR 101, 102L or passing score on basic operational skills test)</i> Presents skills needed to cope with hazards of the roadway environment are presented during day and evening hours on mountain grades, urban and rural roads, interstates and docking facilities. Course fee: \$250. (22.5 lab hours a week for 5 weeks = 112.5 lab hours a term)		
TRDR 171	Material Handling	2
Presents basic forklift/hand truck operation and basic material handling along with forklift safety inspections and cost factors of improper handling. (1 theory + 2.5 lab hours a week = 15 theory + 37.5 lab hours a term)		
TRDR 296	Special Topics	1-6
Presents in-depth study of problems and the advanced techniques that experts in the trucking industry use to solve them.		

Course No.	Course Name	Credit Hours
VICA 174	Professional Development	1
Emphasizes development of goals and commitments, personal awareness, time management, organization and communication.		
VICA 175	Leadership	1
Reviews committee work including agenda setting, parliamentary procedures, team building; participation in community service projects and improvement of communication skills.		
VICA 176	Career Planning	1
Includes career information, report writing, conducting interviews, communication improvement and interaction with business and industry.		
VICA 178	Civic Responsibility	1
Covers various community services as volunteers, and local government and community leaders' roles in the operation of the city. Includes planning and carrying out a community project.		
WELD 104L	Oxyacetylene Welding and Cutting	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents safety and use of oxyacetylene equipment. Provides training in thermal cutting torches, brazing techniques, fusion welding, welding of alloys and general all position welding. (5 lab hours a week = 75 lab hours a term)		
WELD 105L	Oxyacetylene Brazing/Soldering and Fabrication	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Presents instruction in safety, brazing and soldering. Fluxes are applied to various metal and filler metals. Basic fabrication and repair problems are used for practical applications. (5 lab hours a week = 75 lab hours a term)		
WELD 106L	Introduction to SMAW	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Includes topics in shielded metal-arc welding (SMAW) safety, beading, build-ups and welding various types of joints. (5 lab hours a week = 75 lab hours a term)		
WELD 107L	Introduction to SMAW Qualifications and Fabrication	2
<i>(Prerequisites: RDG 099 or equivalent, MATH 097 or equivalent or department approval)</i> Provides instruction in safety and proper procedure for arc welding qualifications using basic fabrication and repair problems for practical applications. (5 lab hours a week = 75 lab hours a term)		
WELD 108	Introduction to Metallurgy	2
Introduces basic science of metals, including structure and welding abilities of ferrous and non-ferrous metals. Covers principles of safety and tool use.		

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
WELD 114L	Advanced SMAW	2
	<i>(Prerequisites: WELD 106L and 107L or department approval)</i> Offers advanced instruction in SMAW with a strong emphasis on safety. Students practice stringers, weaves and wash passes. (5 lab hours a week = 75 lab hours a term)	
WELD 115L	Introduction to GMAW and Fabrication Lab	2
	<i>(Prerequisite: WELD 106L or department approval)</i> Covers mig welding safety, spray and short-circuiting transfer. Fabrication and repairs are assigned. (5 lab hours a week = 75 lab hours a term)	
WELD 116L	Introduction to GTAW and Fabrication Lab	2
	<i>(Prerequisite: WELD 106L or department approval)</i> Emphasizes application of safety and TIG welding on aluminum and stainless steel. Fabrication and repairs are assigned. (5 lab hours a week = 75 lab hours a term)	
WELD 117L	Qualifications for SMAW and GMAW	2
	<i>(Pre- or corequisites: WELD 114L and 115L or department approval)</i> Provides simulated qualification procedures are provided for arc and mig welding in all positions. (5 lab hours a week = 75 lab hours a term)	
WELD 170	Welding Skills	3
	Covers safety practices, basic tools and equipment, operating procedures and applications of oxyacetylene and arc welding. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)	
WELD 171	Advanced Welding Skills	3
	<i>(Prerequisite: WELD 170 or department approval)</i> Includes mig and tig welding, basic math and blueprint reading. (1 theory + 5 lab hours a week = 15 theory + 75 lab hours a term)	
WELD 202	Advanced Blueprint Reading	2
	<i>(Prerequisite: MATT 113 or department approval)</i> Covers pipe layout and development, structural print reading and design and layout considerations related to fabrication.	
WELD 205L	Pipe Layout and Welding	2
	<i>(Prerequisite: WELD 114L or department approval)</i> Includes basic pipe welding and layout, materials testing and industrial safety, as well as welding problems for carbon steels. (5 lab hours a week = 75 lab hours a term)	
WELD 206L	Advanced GMAW and Fabrication	2
	<i>(Prerequisite: WELD 117L or department approval)</i> Includes instruction in advanced carbon steel wire feed welding, AWS lab inspection and fabrication/repair. (75 lab hours a term)	

<i>Course No.</i>	<i>Course Name</i>	<i>Credit Hours</i>
WELD 207L	Advanced GTAW and Fabrication	2
	<i>(Prerequisite: WELD 116L or department approval)</i> Covers advanced aluminum and stainless steel wire feed welding and specialized fabrication/repair. (5 lab hours a week = 75 lab hours a term)	
WELD 208L	Qualifications for GTAW	2
	Covers simulated qualification procedures for tig welding in all positions. (5 lab hours a week = 75 lab hours a term)	
WELD 296	Special Topics	1-6
	<i>(Prerequisite: department approval)</i> Enables students to pursue studies in specialized areas. This class may also be taken as an independent or guided study, as a refresher course or to sharpen skills prior to certification or recertification exams.	

GLOSSARY

academic courses: those which carry transfer credit toward a bachelor's degree as well as meeting requirements for an associate degree (see occupational courses).

accreditation: formal recognition of an educational institution that maintains standards qualifying its graduates for further study or for professional practice. Albuquerque TVI is accredited to grant certificates and associate degrees by the North Central Association of Colleges and Schools; individual programs are accredited or approved by professional organizations.

adding courses: Students may add (register for) TVI courses through the fifth day of a full-term session and the third day of a short session. If the course has a corequisite it must be added as well.

admission: the process of applying and being accepted by TVI (as opposed to registering for a particular course).

advisor: a TVI staff member who provides program information and checklists, handles credit transfer issues, assists students with setting and meeting academic goals and provides referrals to other departments.

articulation agreement: a list of community college courses which are equivalent to corresponding courses at four-year colleges and universities. In other words, a transfer school, such as UNM or NMSU, has agreed, in writing, that these courses will fulfill many or all of the lower-division requirements for a bachelor's degree.

associate degree: a degree awarded by a community college upon satisfactory completion of an organized program. TVI offers the associate of arts, associate of science and associate of applied science degrees. They require 64 to 84 credit hours and include requirements in general education as well as those in the major field of study. Some credit hours are transferable toward a bachelor's degree.

audit: TVI students may register for occupational or Arts & Sciences courses for audit—which means no grade or credit is recorded on the transcript—if they have met the prerequisite(s). Students are expected to attend all class sessions but are not responsible for completing assignments. Audit courses do not count for enrollment verification and cannot be used to meet prerequisite or corequisite requirements.

certificate: awarded by a community college for completion of a job training program requiring fewer credit hours and less advanced coursework than an

associate degree. TVI offers 41 certificates, some of which form the basis for an associate degree when general education courses are added.

challenge exams: used to establish credit for occupational and Arts & Sciences courses.

community college: a postsecondary institution like TVI which offers adult education, college preparation and courses/programs (certificates and degrees) in technical and occupational fields of study as well as for transfer to four-year schools.

corequisite: a course which must be taken in combination with a specific course. Often a lab is the corequisite for a lecture: CHEM 121/121L, for example. A student who drops one of a pair of corequisite courses must drop the other as well.

counselor: a TVI staff member who provides academic, career and personal counseling as well as referrals.

course fee: a charge for materials, equipment and supplies for a course, listed in the Schedule of Classes and the Catalog.

course load: the number of courses taken in a term, usually measured in credit hours. At TVI, 12 hours is considered a full load. Students wishing to take more than 18 hours must meet certain conditions.

credit hour: a unit of measurement for courses. At TVI, each hour of credit in a lecture class requires a minimum of 750 minutes of instruction per term; each hour of credit in a laboratory class requires at least 1,500 minutes. For transfer purposes, one TVI credit hour generally equals one semester credit hour at other institutions.

credit/no credit: CR/NC, a grade option in some TVI courses, replacing the traditional letter grade.

CRN: course reference number, assigned to each course in the Schedule of Classes and used in registering.

distance learning: course sections offered via the Internet, videotape, correspondence or television or in an electronic classroom. These sections cover the same material and carry the same credit as their in-class counterparts. Separate fees are charged. For details, see the Schedule of Classes.

dropping courses: removing your name from a course roll if you no longer wish to attend and will not receive a grade. Deadlines for dropping courses are printed in the Schedule of Classes. If you drop a course with a corequisite you must also drop the corequisite. Dropping courses may affect your financial aid.

elective: a course not required for graduation or for a major.

full-time status: 12 credit hours constitute a full course load.

general education courses: courses outside the major field that are required for an associate degree. Examples are ENG 101 and MATH 121; at TVI, general education courses are offered by the Arts & Sciences Department.

grade point average (GPA): computed by multiplying the number of credit hours of a course by the points assigned to the letter grade, then dividing by the total number of hours.
Point values are: A=4, B=3, C=2, D=1, F=0.

major: a group or series of courses designed to provide intensive education or training in a specialized area. A major prepares students for immediate employment and/or further education; a student's major is the certificate or degree program in which he or she is enrolled.

non-degree student: one who has not yet chosen a major or who does not wish to earn a certificate or degree. Adult & Developmental Education students are classified as non-degree. Credits earned in non-degree status may be transferred to a certificate or degree program. Non-degree students may not be eligible for financial aid or veterans' benefits.

occupational courses: those designed to prepare students for entry-level jobs. At TVI occupational courses (also called vocational courses) are offered in the Business Occupations, Health Occupations, Technologies and Trades & Service Occupations departments.

PIN: personal identification number used as an access code in STARS. Your PIN is pre-set to your birth month/day/year (June 12, 1970, is 061270, for example). To protect your privacy, you should change your PIN as soon as you begin using STARS. If you forget your PIN, come to the Records Office with a picture ID which includes your Social Security number.

prerequisite: a requirement which must be fulfilled before a student may enroll in a course. Often the prerequisite is a lower-level course in the same subject which must be completed with a passing grade.

program director: an instructor who provides in-depth information about a certificate or degree program

R: Thursday (really!) in the TVI Schedule of Classes, where T R means a class meets Tuesday and Thursday.

recommended: a course which is recommended to be taken prior to enrollment in another course.
(See prerequisite.)

registration: the process of signing up for courses, including paying tuition and fees.

registration fee: a charge paid before registering for classes (\$22.25 per term in 2000–01).

repeating courses: A course may be repeated up to three times, with each enrollment appearing on the transcript.

Schedule of Classes: a printed list of classes to be offered in the upcoming term, including CRN, day/time and location, with information about admission, payments and registration.

snow day: Under extreme weather conditions, TVI may close or operate under an abbreviated schedule, with classes beginning at 10:30 a.m. Information is announced on a telephone hotline, 224-4SNO, and on radio stations.

STARS: TVI's Student Access Telephone Registration System. It allows students to register for classes, add and drop classes and find out their grades by using a touch-tone telephone. Instructions for using STARS are published in the Schedule of Classes.

term: the length of a specific course and, therefore, a portion of the academic year. TVI has three terms a year: fall (beginning in September), spring (January) and summer (May).

topics course: a course on a special topic offered irregularly and indicated with a = footnote in the Schedule of Classes.

traditional grade: letter grade (A, B, C, D or F) used in calculating the grade point average and recommended for courses in the major and for courses to be transferred to another institution. For details on grade options, see page 18.

transcript: an official copy of a student's academic record at a college, showing courses attempted and completed, grade and the grade point average. TVI transcripts are available from the Records Office.

transfer credit: credits for courses taken at another institution and counted toward a TVI certificate or degree or taken at TVI and applied toward a degree at another institution.

tuition: a charge for TVI's Arts & Sciences courses: in 2000–01 New Mexico residents pay \$33.00 per credit hour. Non-residents also pay tuition: \$91.40 per credit hour for Arts & Sciences and occupational courses.

withdrawal: dropping all courses and ceasing to be a TVI student.

wpm: words per minute (keyboarding).

INDEX

A

“ability to benefit” standards 9
academic calendar 8
Academic Policies 18–23
academic records 22
 challenge of contents 23
academic renewal 20
academic standards 20
 warning 20
academic support 26
academic year 4, 9, 18
Accounting 42, 135
 introduction 135
accreditation 3, 4
Accuplacer 10
adding courses 12
address change 22
admission 9–11
Adult & Developmental Education 25, 26, 27–28, 132–133
Adult Education 27–28, 132
Adult Education Learning Center 26, 132, 133
advanced placement test 10, 24
advertising 144
advisement 24
Aerospace Studies 29, 138
Air Conditioning, Heating and Refrigeration 43, 137
 concentration 100
Air Force 29
algebra 132, 185
American Bar Association 31, 41
American College Test (ACT) 10, 24
American Council for Construction Education 41, 64
American Culinary Federation Educational Institute 41, 72
American Hotel & Motel Association 89
Anderson Schools of Management 119
anthropology 139
Application for Admission Form 10
applying to TVI 10
apprenticeships 34, 44
Architectural/Engineering Drafting Technology 45, 139
art 96, 140
art history 140
articulation agreements 30
Arts & Sciences 29, 40, 41. *See also* Liberal Arts
assessment 4
Assistance Centers for Education 26
associate of applied science degree programs 9, 38–41
associate of arts degree programs 9, 38–41
associate of science degree programs 9, 38–41
Association of Collegiate Business Schools and Programs
 30, 41
astronomy 141
attendance 13, 18–23, 27
audit 12, 19
Automotive Service Fundamentals 46
Automotive Technology 46, 141
 concentration 127

B

Baking 47, 147
Banking *see* Financial Services
Bilingual concentration (Elementary Education) 81
biological and physical sciences 96
biology 145
blueprints 148, 171, 192
Bookkeeping 48
Business Administration 49, 142
Business Computer Applications concentration 58
business English 143
Business Graphics and Communication 51, 145
Business Information Management concentration 58
Business Occupations 30, 40, 41
Business Resource Centers 31

C

Call Center Operations 52
cancellation of enrollment 12
Career Resource Room 24
Carpentry 53, 148
 apprenticeship 44
CASAS 27
certificate programs 9, 38–41
certificate/degree status 9
Certified Professional Secretary (CPS) 112
challenge examinations 15, 32
Character Counts 142
chemistry 151
child care 16, 25
Child Care Grant 15
Child, Youth and Family Development 54, 149
choice of catalog 12, 21
circuits 169
citizenship 133
class schedule 12
Clinical Laboratory Assistant 57, 155
code of conduct 25
College Level Examination Program (CLEP) 10, 24
Commercial Carpentry Apprenticeship 44, 149
Commission on Accreditation of Allied Health
 Education 41, 122
Committee on Accreditation for Respiratory Care 41, 122
communications 95, 142, 157
computer animation 160
Computer Animation concentration 63
computer basics 143, 164
computer graphics 63, 160
Computer Information Systems 57, 151
computer languages
 ANSI COBOL 159
 Assembler 161
 Basic 160
 C++ 162
 Extensible Markup Language (XML) 152
 Hypertext Markup Language (HTML) 152

- JAVA 161
- RPG III 162
- UNIX 162
- Visual Basic 162
- computer literacy 133, 164
- computer networks 105, 161
- Computer Programming concentration 62
- computer programming 62, 161, 164, 169
- computer science 96
- computer software
 - Access 152
 - Alias Wavefront/Maya 161
 - CADKEY 187
 - computer-aided design/drafting (CADD) 165
 - computer-assisted design drafting (CADD) 73
 - computer-assisted drafting (CAD) 139, 187
 - desktop publishing 145, 154
 - digital publishing 145
 - Excel 152
 - FrontPage 153
 - HTML 129, 152
 - Lightwave 3D 162
 - multimedia authoring 154
 - network server 105
 - PageMaker 145
 - Photoshop 145
 - PowerPoint 151
 - QuarkXPress 145
 - scripting 129, 152
 - Web commerce 168
 - Web sites 129, 152
 - Windows 151
 - word processing 133, 151
- computer-aided transcription 164
- computers
 - computer-aided design 73
 - hospitality industry 89
 - Internet 105, 129, 152
 - multimedia 152
 - open computer lab 26
 - Windows NT 151
 - World Wide Web 129, 152
- Computing Technology 62
- concurrent enrollment 10
- Construction Management 156
- Construction Management Technology 64
- Construction Technology 65
- continuing education credit 11
- continuous enrollment 21
- Continuous Quality Improvement 67, 142
 - concentration 50
- cooperative education 25, 34
- corequisite 12
- Cosmetology 67, 157
- counseling 24
- course load 13
- course repetition 13
- course substitutions/waivers 11
- Court Reporting 69
- credit by examination *see* Challenge Exam
- credit hour 18
- credit/no credit 19
- Criminal Justice 70, 155
- Critical Care Nurse Internship 72
- Culinary Arts 72
- cultural studies 164

D

- Data Communications Management concentration 58
- Data Entry 73, 166
- dean of students 19
- Design Drafting Engineering Technology 73, 165
- Developmental Education 26, 27
- Diagnostic Medical Sonography 74, 167
- Diesel Equipment Technology 75, 127, 166
 - concentration 127
- disabilities, services for people with 4, 5, 24
- distance learning 5
 - fee 15
- Division of Vocational Rehabilitation 16
- drafting 45, 73, 139, 165
 - introduction 168
- dropping courses 13

E

- E-Commerce 76, 168
- Early Childhood Multicultural Education concentration 54
- economics 168
- Electrical concentration 66, 171
- Electrical Trades 77, 173
 - apprenticeship 44, 176
- electronics
 - introduction 170
- Electronics Engineering Technology 78, 169
- Electronics Technology 79
- Elementary Education 81
- Emergency Medical Technician 83, 173
- Emeritus Academy 3
- Employment Skills 198
- English 173
 - developmental English 173
- English as a second language 132, 173
- Entrepreneurship 83, 174
- Environmental Technology 83, 174
- equal opportunity 5
- (ESL) *see* English as a second language
- experiential learning 25

F

- Facilities Maintenance concentration 98
- Family Educational Rights and Privacy Act 22
- Family Studies concentration 54
- fees 14–15
- financial aid 15–17
 - check release 16
 - deferment authorization 17
 - eligibility 15
 - repeating courses 13
 - satisfactory academic progress 16
- Financial Services 84, 144
- fine arts 96
- Fire Science 86, 177
- Fitness Technician 87, 176
- Food Service Management 88, 178
- foreign languages 96
- French 177
- full load 13
- funding for TVI 4

G

GED 9, 15, 25, 132
 Spanish GED 132
GED exam
 fee 15, 25
 pre-test 25
 preparatory classes 25
General Business concentration 50
General Construction concentration 65
general education 4
General Educational Development. *See* GED
General Electronics concentration 80
General Honors courses 178
General Honors Program 29
General Manufacturing concentration 100
Geographic Information Systems 46, 178
geography 178
geometry 132, 185
glossary 201
Governing Board 3, 4
grades 18, 202
 appeals 19
 grade point average (GPA) 18
graduate job placement 6–7
graduation 15, 21
 requirements 21
 with honors 21
grammar 26, 132, 133, 173, 174

H

health insurance 25
Health Occupations 32, 40, 41
 introduction 179
Healthcare Technician 88, 178
Health Unit Clerk 89, 181
high school equivalency exam. *See* GED
history 179
history of TVI 4
home page (TVI) 2
home school 9
honor roll 20
honors 21
honors courses 29, 178
Hospitality and Tourism 89, 179
humanities 96, 182

I

ID number 14
identification card 18
incomplete grade 19
Instructional Media Resources 26
International Business 91, 182
internships 25 *See also* individual programs
Iron Worker Apprenticeship 44, 182

J

job placement 6–7, 25
Job Training Partnership Act 16
journalism 182
Judicial Studies 92, 182

K

keyboarding 163
kiosk 23, 24

L

language arts 81
lasers 184
learning centers 26
Legal Assistant Studies 94, 183
Legal (Office Administration) concentration 112
Liberal Arts 95
Licensed Practical Nurse Refresher 96, 184
literature 132, 173
loans 16

M

machine shorthand 163
Machine Tool Technology 97, 186
 concentration 104
major 12
management 143
Manufactured Housing Set-up 97, 187
Manufacturing Technology 98, 188
marketing 143
math 26, 96, 132, 184, 192
 developmental math 184
Math Applications Learning Lab 26
Mechanical Technology 100
Medical (Office Administration) concentration 113
Medical Laboratory Technician 102, 188
Merchandising concentration 50
Metals Technology 104
mission, vision, values and goal statements 3
Multimedia concentration 58
music 188

N

name change 23
National Accrediting Agency for Clinical
 Laboratory Sciences 41, 102
National Automotive Technicians Education
 Foundation 41, 47
National Child Development Associate 59
National Court Reporters Association 41
National League for Nursing Accreditation
 Commission 41, 107
Network Systems Management concentration 106
Network Technical Support concentration 106
Networking Technology 106
New Mexico Highlands University 118
New Mexico Real Estate Commission 10
New Mexico State Board of Nursing 41, 107
New Mexico State University 73, 79
non-degree status 10
non-traditional credit 11
North Central Association of Colleges and Schools 4, 31
Nursing 107
 ADN 108
 loans 16

Nursing Assistant 111, 189
Nursing Home/Home Health Attendant 107, 189
Nursing Programs 107
nutrition 190

O

Office Administration 112, 134
Office Assistant 114
Office Technology concentration 112
open-entry, open-exit 12, 19
optics 184
orientation 12, 24

P

Pell Grant 15
Perioperative Nurse Specialist 111, 193
permission to enroll 13
Pharmacy Technician 115, 194
philosophy 190
Phlebotomy 116, 191
phonics 132
physics 96, 191
placement test 10
Plumbing 116, 191
 apprenticeship 45, 191
 concentration 101
PLUS loans 16
political science 193
Practical Nursing 109, 192
Pre-Engineering 117
Pre-Management 118
prerequisites 12
Presbyterian Hospital 109
probation 20
Process Control 190
Process Control concentration 80
Professional Cooking 119, 194
Professional Truck Driver Institute of America 41, 128
programs of study 36–131
psychology 193

Q

quality improvement 142
Quantity Food Preparation *see* Professional Cooking

R

reading 26, 132, 133, 173, 195
Real Estate 120, 143
 concentration 50
refunds 17
Registered Nurse Refresher 120, 195
registration 12–15
 fee 14
 invoice 12
religion 195
remodeling 148
repeating courses 19
Retail Management 124
residency
 tuition 14
Residential Superintendent 64

Residential Wiring 121, 171
Respiratory Therapy 122, 195
Returning Student Update Form 10
robots 190

S

SAT 10, 12
Schedule of Classes 2, 12
scholarships 16
science 96, 132
 developmental science 197
self-paced learning 26
Semiconductor Manufacturing concentration 99
semiconductors 197
Sheet Metal Apprenticeship 45, 197
“sitting in” on classes 12
Skills USA 33, 34
Small Business Management concentration 50
Small Engine Skills Improvement 197
social and behavioral sciences 96
Social Security number 14, 23
Society of Manufacturing Engineers 73, 98
sociology 197
Spanish 198
Special Education 81
Special Services 2, 5, 24
spelling 132
Stafford Loan 16
State Student Incentive Grant 15
Stenotranscription 125, 164
stepbacks/stepups 13
Student Employment program 16
Student Handbook 2, 24
Student Health Center 25
Student Job Placement 25
Student Right to Know and Campus Security Act 23
Student Services 24–26
study skills 198
Supplemental Educational Opportunity Grants 15
Surgical Technology 126, 198
suspension 20

T

Tax Relief Act 23
Technologies 33
Technology Accreditation Commission of the Accreditation
 Board for Engineering and Technology 41, 73, 79
Testing Centers 24
theater 199
topics courses. *See* individual programs
“Touch TVI” 23, 24
Trades & Service Occupations 34
transcripts 15, 23
transfer of credit 10
transferring to TVI 10
Transportation Technology 127
Tres Manos Child Development Center 16, 25
Truck Driving 128, 199
tuition 14
 senior citizen discount 14
Tutorial/Learning Centers 26
tutoring 26, 132
TVI challenge exams 11

TVI Foundation 4
typing. *See* keyboarding
typing tests 24

U

University of New Mexico 25, 29, 57, 64, 102, 112, 117,
118, 122, 196

V

verification of completion 9
Veterans Administration 16, 28, 32
VICA. *See* Skills USA
VICA courses 199

W

Web Technology 129
Welding 130, 199
 concentration 105
withdrawal 13
work study 16
Workforce Training Center 5
writing 132, 133, 173
Writing and Reading Assistance Center 26

