

ACADEMIC TRANSFER

Programs of Study and Course Descriptions

Many courses have competency Prerequisites that are identified as R, reading intensive; W, writing intensive, and M, math intensive.

ACCOUNTING

ACCT 2401: Principles of Accounting I – Financial (4:3-3)

Analysis and recording of business transactions; financial statement preparation and analysis; proprietorship, partnership, and corporation accounting. R, M.

ACCT 2402: Principles of Accounting II – Managerial (4:3-3)

Continuation of ACCT 2401. Introduction to budgeting, cost accounting and control with methods of measuring performance, and product pricing. This course is offered in the spring semester. Prerequisite: ACCT 2401 or consent of instructor. R, M.

ANTHROPOLOGY

ANTH 2301: Physical Anthropology (3:3-0)

The primary objective of this course is to provide students with an understanding of the biological diversity of human beings throughout the world. The course gives an overview of human origins and biocultural adaptations. It also introduces methods and theory in the excavation and interpretation of material remains of past cultures. R

ANTH 2302: Introduction to Archaeology (3:3-0)

Archaeology is the study of the material remains of past human behavior. Focus is on the multi disciplinary methodology of archaeology, beginning with an examination of the material remains that archaeologists use. The course demonstrates how archaeologists reconstruct past environments, subsistence, technology, settlement patterns and social organization, and their attempt to explain cultural change through time. Case studies are examined to demonstrate the methodologies that archaeologists actually use to address anthropological questions.

ANTH 2346: General Anthropology (3:3-0)

As the "science of man," anthropology examines human biological and cultural variation, both present and past. The course begins with a foundation in human biology and examines the genetic and cultural causes of diversity. It then follows man's beginnings in Africa to his dominion of the earth, and in the process, examines the development and divergence of cultural systems found throughout the world. R

ANTH 2351: Cultural Anthropology (3:3-0)

The primary objective of this course is to develop students' understanding of the diversity of human cultural systems around the world. The course includes key concepts, methods and theory in the study of cultural diversity, social institutions, linguistics, and culture change among world peoples.

ANTH 2389: Academic Cooperative in Anthropology (3:3-4)

Integrates on-campus study with practical experiences in anthropology/archaeology. In conjunction with class seminars and consultation with the instructor, each student sets specific goals and objectives in the study of anthropology/archeology.

ART

Those students planning to pursue a major or minor in art should enroll in the following core courses during their freshman year: ARTS 1303, ARTS 1304, ARTS 1311, ARTS 1312, and ARTS 1316. Departments of Art at many senior institutions also expect students to complete ARTS 1301. Students should consult the catalogs of senior colleges to which they may transfer before planning their freshman year here.

Students interested in enrolling in an art course as an elective, or for personal enrichment, may take individual courses with the consent of the instructor or an advisor.

ARTS 1301: Art Appreciation (3:3-0)

An introduction to the visual arts through an exploration of their purposes and processes. May be taken either year of the curriculum. This course is open to both non-art majors and art majors or minors. Students with little or no background in art are welcome in the course. R, W

ARTS 1303: Art History Survey I (3:3-0)

A historical and thematic examination of painting, sculpture, architecture, and other arts. May be taken in either year of the curriculum. This course is open to both non-art majors and art majors and minors. Students with little or no background in art are welcome in the course. This course offered usually in the fall semester. R, W

ARTS 1304: Art History Survey II (3:3-0)

A further historical and thematic examination of painting, sculpture, architecture, and other arts. May be taken in either year of the curriculum. This course is open to both non-art majors and art majors and minors. Students with little or no background in art are welcome in the course. This course offered usually in the spring semester. R, W

ARTS 1311: Design I (3:2-4)

A studio course concerning the fundamentals of art with emphasis on 2-dimensional concepts. This course offered usually in the fall semester. Lab fee \$24.

ARTS 1312: Design II (3:2-4)

A studio course concerning the fundamentals of art with emphasis on 3-dimensional concepts. This course offered usually in the spring semester. Lab fee \$24.

ARTS 1316: Drawing I (3:2-4)

A studio course investigating a variety of media techniques, descriptive, and expressive possibilities. Offered in the fall and spring semesters. Lab fee \$24.

ARTS 1317: Drawing II (3:2-4)

A further investigation of media techniques, descriptive, and expressive possibilities. Lab fee \$24.

ARTS 2313: Design Communications I (3:2-4) - ILLUSTRATOR

Communication of ideas through processes and techniques of graphic design and illustration using the Macintosh computer. This course will include page layout and illustration created with appropriate software. Lab fee \$24.

ARTS 2314: Design Communications II (3:2-4) - PHOTOSHOP

Communication of ideas through processes and techniques of graphic design and illustration using the Macintosh computer. This course will include techniques of scanning and manipulating images with appropriate software. Lab fee \$24.

ARTS 2316: Painting I (3:2-4)

A studio course exploring the potentials of painting media with emphasis on color and composition. Lab fee \$24.

ARTS 2317: Painting II (3:2-4)

A further investigation of painting with emphasis on individual expression. Prerequisite for Art Majors: ARTS 2316. This course offered usually in the spring semester. Lab fee \$24.

ARTS 2323: Life Drawing I (3:2-4)

A studio course emphasizing structure and action of the human figure. Lab fee \$35

ARTS 2326: Sculpture I (3:2-4)

A studio course exploring sculptural approaches in a variety of media. Prerequisite for Art Majors: Freshman art core. Lab fee \$24.

ARTS 2327: Sculpture II (3:2-4)

The purpose of Sculpture II is to continue the exploration of the language of 3-dimensional form through hands-on creative studio experiences. Lab fee \$24.

ARTS 2333: Printmaking I (3:2-4)

An introductory studio class in basic printmaking processes and techniques. Lab fee \$35.

ARTS 2334: Printmaking II (3:2-4)

A further investigation of printmaking processes and techniques. Lab fee \$35.

ARTS 2346: Ceramics I (3:2-4)

An introductory studio course in basic ceramic processes: hand building, throwing, decorating, and firing techniques. Lab fee \$24.

ARTS 2347: Ceramics II (3:2-4)

A further investigation of ceramic processes with an emphasis on throwing, decorating, and firing techniques. Lab fee \$24.

ARTS 2348: Digital Art I (3:2-4)

A studio course which explores the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. Lab fee \$24.

ARTS 2349: Digital Art II (3:2-4)

A studio course which uses computer hardware and software as a medium for visual and conceptual expression in the visual arts. Lab fee \$24.

ARTS 2356: Photography I (3:2-4)

This studio course is an introduction to black and white photography as an artistic medium. Learn fundamental photographic theory , methods, materials, and equipment. Student must provide camera. Lab fee \$35.

ARTS 2357: Photography II (3:2-4)

This studio course offers further investigation into the possibilities of photography as an artistic medium. Student must provide camera. Lab fee \$35.

BIOLOGY

BIOL 1306: Biology for Science Majors I - Telecourse (3:3-0)

Considers the nature of science, simple chemistry important in biological systems, cytology, energetics, mitosis and meiosis, patterns of inheritance, DNA and its structure, gene regulation, evolution, populations and ecology. There is no lab associated with this course.

Fall semester only. R, W

BIOL 1406: Biology for Science Majors I (4:3-3)

Considers the basic principles of biology: the nature of science, simple chemistry important in biological systems, cytology, energetics, mitosis and meiosis, patterns of inheritance, DNA and its structure, gene regulation, evolution, populations, and ecology. Usually offered in fall, spring, and first summer semesters. \$50 lab fee. R, W

BIOL 1407: Biology for Science Majors II (4:3-3)

Considers the great diversity of living organisms. A discussion of how living things are classified and of the Five Kingdom scheme leads to an analysis of each of the Kingdoms with special emphasis on the form and function of the most advanced members of the Plant and Animal Kingdoms. Viruses also investigated. This course meets the recommended requirement for BIOL 1424. Usually offered in the spring and second summer semesters. \$50 lab fee. R, W

BIOL 1411: General Botany (4:3-3)

This course emphasizes the form and function and the evolution and ecology of vascular plants, with an emphasis on flowering plants. There is also a brief survey of the plant kingdom. The course prepares the student for upper-level courses in botany. This course meets the recommended requirements for BIOL 1424. Usually offered in the fall semester. No Prerequisite required. \$50 lab fee. R, W

BIOL 1413: General Zoology (4:3-3)

Emphasizes the cytology, morphology, physiology, taxonomy, and ecology of animals. Field trips will be conducted to observe animals in the wild. Usually offered in the spring semester.

\$50 lab fee. R, W

BIOL 1424: Systematic Botany (4:3-3)

Emphasis on collection and identification of major plant families of the angiosperms although all vascular plants are considered. Discussion of the classification of plants, including the artificial, natural, and the more recent attempts at phylogenetic classification schemes such as biosystematics; also, the underlying principles of plant nomenclature, the origin of the angiosperms, and the role of herbaria and botanical gardens. Usually offered in the spring semester.

Recommended: BIOL 1407 or BIOL 1411 or permission of the instructor. \$50 lab fee. R, W

BIOL 2316: Genetics (3:3-0)

A study of Mendelian, molecular, and population genetics as developed since 1900. The course considers among other topics basic inheritance, transmission of hereditary material, linkage, chromosome mapping, the central role of DNA and its function in the cell, as well as genetics of populations and its importance in evolutionary theory. This is a non-laboratory science course.

Recommended: BIOL 1406 or permission of the instructor. R, W

BIOL 2401: Anatomy and Physiology I (4:3-3)

The first of two sequential courses in human anatomy and physiology for students majoring in Nursing and certain other allied health fields. Structure and function of the human body are integrated in a systems approach. Function is explained in terms of microanatomy and gross anatomy. In the introduction cell chemistry and cytology are emphasized. Histology, the skin, the skeletal system, and the muscular system are included in the first semester. \$50 lab fee. R, W

BIOL 2402: Anatomy and Physiology II (4:3-3)

The second of two sequential courses in human anatomy and physiology for students majoring in Nursing and certain other allied health fields. The organ systems covered are: nervous, endocrine, circulatory and immunity against disease, respiratory, digestive, urinary, and reproductive. Prerequisite: BIOL 2401. \$50 lab fee. R, W

BIOL 2404: Anatomy and Physiology (4:3-3)

A one-semester course in human anatomy and physiology for students majoring in Licensed Vocational Nursing, Surgical Technology, Respiratory Technology, and Emergency Medical Technology. Lecture and laboratory materials are taught in an integrated approach. This course is offered most semesters and is also be offered via internet during some semesters. \$50 lab fee. (This is a one semester condensed course and does not substitute for BIOL 2401 or 2402.)

BIOL 2421: Microbiology for Science Majors (4:3-3)

Morphology and physiology of microorganisms with emphasis in the laboratory on bacteria. Microorganisms of medical, economic and environmental importance are stressed. This course is recommended for students in Nursing and allied health programs. Prerequisite: 3 hours of biological science. \$50 lab fee. R, W

BIOL 2428: Vertebrate Zoology (4:3-3)

An introductory study of the vertebrates with emphasis on natural history and systematics; the ecology, distribution, and morphology are also studied. This course includes field trips for observing and collecting. Usually offered in the fall semester. \$50 lab fee. R, W

BIOL 2470: General Entomology (4:3-3)

A survey of the major orders of insects with emphasis on the taxonomy, morphology, ecology, and life history. Special emphasis will be given to those forms affecting man and domestic animals. Field trips and a collection will be required. Prerequisite: One college course in Biology or consent of instructor. Usually offered in the summer session. \$50 lab fee. R, W

BUSINESS ADMINISTRATION
*Field of Study**

Business

The following courses are transferable to all public 4-year colleges and universities in Texas for students seeking a Bachelor of Business Administration Degree.

		Sem. Cr. Hr.
ECONOMICS	(ECON 2301, ECON 2302).....	6
MATH	(MATH 1325).....	3
BCIS	(BCIS 1405).....	4
SPEECH	(SPEECH 1321)	3
ACCOUNTING	(ACCT 2401, ACCT 2402).....	8
	Total Transfer	24
	Remainder of Core Curriculum	33
	Remaining 7 hours-Electives.....	7
	Total hours required	64

Students should check each college or university regarding the transferability of the core curriculum courses.

For suggestions on the remaining 7 hours to complete an Associate of Arts Degree, a student should consult an advisor or the head of the Business Department.

*For additional information on Field of Study, consult the Coordinating Board website at www.thecb.state.tx.us .

BUSI 1301: Business Principles (3:3-0)

A course of study of the principles of the modern business world that provides a foundation for further study of other business courses. This course emphasizes the study of economics, global dimensions of business, ethics, forms of ownership, management, marketing, and finance.

BUSI 1307: Personal Finance (3:3-0)

A practical approach to the basic financial problems which confront individuals with special attention on budgeting, buying on credit, borrowing, savings, insurance, home ownership, investing, income taxes, social security, estate planning, and retirement planning to develop a responsibility for personal money management.

BUSI 2301: Business Law (3:3-0)

General principles of law to acquaint the student with the legal environment in which business enterprise operates in its relationship to the whole body of law. Topics include historical and constitutional foundations of law, ethics, courts, court procedures, torts (against both persons and businesses), criminal law, and contracts.

BUSI 2302: Legal Environment of Business (3:3-0)

An application of the general principles of law concerning sound business decisions relation to sales contracts, warranties, commercial paper, secured transactions and bankruptcy, agency and employment discrimination, real property and environmental law, personal property, bailments, and insurance.

BUSINESS COMPUTER INFORMATION SYSTEMS

BCIS 1316: Computer Programming -BASIC (3:2-2)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation. Lab fee \$24.

BCIS 1332: COBOL Programming I (3:2-2)

Introduction to business programming techniques using the COBOL language. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation. Lab fee \$24.

BCIS 1405: Business Computer Applications (4:3-2)

This course discusses computer terminology, hardware, software, operating systems and information systems relating to the business environment. The main focus of this course is on business application of software, including word processing, spreadsheets, databases, presentations graphics and business-oriented utilization of the internet. Lab fee \$24.

BCIS 1420: Introductory C Programming (4:3-2)

Introduction to business programming techniques using the C or C++ language. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation. Lab fee \$24.

BCIS 2390: System Analysis & Design (3:3-1)

Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces.

BCIS 2416: Advanced Structured Programming Techniques BASIC (4:3-2)

Further applications of business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design testing, and other topics not normally covered in an introductory information systems programming course. Visual BASIC is the programming language used. Lab fee \$24.

BCIS 2432: Advanced Programming COBOL (4:3-2)

Further application of COBOL business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design testing, and other topics not normally covered in an introductory information systems programming course. Lab fee \$24.

CHEMISTRY

CHEM 1104: Chemical Calculations (1:1-1)

This course involves chemical calculations with emphasis on computer techniques for collection, storage, graphing, and reporting of data. Interfacing of equipment for processing of data is reinforced through demonstrations and projects. This course is individualized instruction. Will be offered when sufficient demand exists. Prerequisites: CHEM 1111, 1311, and permission of the instructor. \$24 lab fee. M

CHEM 1105: Introductory Chemistry Laboratory I (1:0-3)

The laboratory work involves beginning laboratory techniques, lab safety, fundamental experimental data operations, and fundamental data calculations. Experiments involve Introductory Chemistry I (CHEM 1305) theory. Prerequisite: CHEM 1305 or concurrent enrollment in CHEM 1305. \$24 lab fee. R

CHEM 1111: General Chemistry Laboratory I (1:0-3)

The laboratory work involves beginning laboratory techniques, lab safety, fundamental experimental data operations, and chemical calculations. Experiments involve General Chemistry I theory.

Prerequisite: CHEM 1311 or concurrent enrollment in CHEM 1311. \$24 lab fee. R, M

CHEM 1112: General Chemistry Laboratory II (1:0-3)

The laboratory work includes laboratory techniques, qualitative analysis, pH of weak acids and bases, buffer systems, solubility, equilibrium, and chemical calculations. Experiments involve General Chemistry II theory. Prerequisites: CHEM 1111 and CHEM 1312 or concurrent enrollment in CHEM 1312. \$24 lab fee. R, M

CHEM 1305: Introductory Chemistry I (3:3-0)

This course is designed for students in nursing, respiratory therapy, and similar health care areas. It also serves as a basis introductory course for students not majoring in science who wish to investigate some of the fundamentals of chemistry while meeting a physical science laboratory degree requirement. It covers the metric system, fundamental laws and theories, the structure of matter, compound and equation writing, periodic classification, gas laws, acid, bases, salts and solutions. The student should consult with an advisor relative to the use of this course in the degree sequence. R

CHEM 1311: General Chemistry I (3:3-0)

CHEM 1311 provides a basis for advanced work in the sciences. Topics covered include fundamental laws and theories, the structure of matter and periodic classification relationships, bonding theory, acids, bases and salts, properties of gases and solutions. Emphasis is placed on chemical calculations. Prerequisite: High school algebra I and II or MATH 0303 strongly recommended.

R, W, M

CHEM 1312: General Chemistry II (3:3-0)

Topics studied include equilibrium systems, electrochemistry, thermochemistry, nuclear chemistry, advanced bonding, kinetics, pH, buffers, and a brief introduction to organic chemistry. Chemical calculations are stressed. Prerequisite: CHEM 1311. R, W, M

CHEM 1407: Introductory Chemistry II (4:3-3)

This is a continuation of CHEM 1305. Radioactivity and nuclear changes, equilibrium systems, the pH scale, and chemical systems are studied. Most of the semester is devoted to the study of carbon compounds with emphasis on physiological chemistry. Includes a laboratory portion related to the lecture material. The student should consult with an advisor relative to the use of this course in their degree sequence. Prerequisite: CHEM 1305 and CHEM 1105 or CHEM 1311 and CHEM 1111.

\$24 lab fee. R, W

CHEM 1408: Introductory Chemistry II (4:3-3) -- Introduction to Bio-Organic Chemistry II

This course is the equivalent of CHEM 1407 but with allied health emphasis. Topics include radioactivity, classes of organic compounds and their reactions. Also included is the study of carbohydrates, proteins, lipids, DNA and RNA, and important substances in biological processes. Includes a laboratory portion related to the lecture material. The student should consult with an advisor relative to the use of this course in their degree sequence. Prerequisite: CHEM 1305 and CHEM 1105 or CHEM 1311 and CHEM 1111. \$24 lab fee. R, W

CHEM 2423: Organic Chemistry I (4:3-4)

This course is a systematic study of the aliphatic and aromatic hydrocarbons and their derivatives. Emphasis is placed on synthesis, mechanisms, stereoisomerism and practical applications. Laboratory techniques in synthesis and purification are stressed. Infrared instrumentation is used. This course is designed to satisfy pre-medical, pre-pharmacy, pre-engineering, chemistry and other science major requirements. Prerequisites: CHEM 1112 and 1312. \$24 lab fee. R, W

CHEM 2425: Organic Chemistry II (4:3-4)

This course is a continuation of CHEM 2423. Emphasis is placed on spectroscopy, organic reactions and mechanisms, reactions and mechanisms of aromatic systems, and the study of bio-molecules. Laboratory techniques in synthesis and qualitative analysis are stressed. Infrared instrumentation is used. Prerequisite: CHEM 2423. \$24 lab fee. R, W

CHILD DEVELOPMENT
Field of Study*

Child Development/Early Childhood Education

Leading to the Bachelor of Science in Human Sciences or
Bachelor of Science in Interdisciplinary Studies
Concentration: Child and Family Studies/Child Development Including a
Proposed Certification in Early Childhood Education
36-48 Hour Academic Major—21 hours must be upper-division

The lower-division degree requirements must include:

		Sem. Cr. Hr.
TECA 1303	Family, School & Community	3
TECA 1311	Educating Young Children.....	3
TECA 1318	Wellness of the Young Child.....	3
TECA 1354	Child Growth & Development.....	3
	Total Transfer.....	12

An additional three hours of lower-division course work may be transferred by local agreement from the following topics:

- Infant and Toddler**
- Child Guidance**
- Early Childhood Creative Arts**
- Children with Special Needs**
- The School Age Child**
- Motor Development**

Students should check each college or university regarding the transferability of the core curriculum courses.

*For additional information on Field of Study, consult the Coordinating Board website at www.thecb.state.tx.us

CHILD DEVELOPMENT

TECA 1303: Families, School, and Community (3:3-1)

A study of the child, family, community, and schools, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. This course requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations with a minimum of 15 hours of field experience. \$24 lab fee.

TECA 1311: Educating Young Children (3:3-1)

An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical, and professional responsibilities, and current issues. This course requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations with a minimum of 15 hours of field experience. \$24 lab fee.

TECA 1318 Wellness of the Young Child (3:3-1)

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness and safety practices. Focus on local and national standards and legal implications of relevant policies and regulations. This course requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations with a minimum of 15 hours of field experience. \$24 Lab fee.

TECA 1354: Child Growth and Development (3:3-0)

A study of the physical, emotional, social, and cognitive factors impacting growth and development of children through adolescence..

COMPUTER SCIENCE
*Field of Study**

		Sem. Cr. Hr.
COMPUTER SCIENCE	(COSC 1336 or COSC 1436, COSC 1337 or COSC 1437, COSC 2336 or COSC 2436, COSC 2325 or COSC 2425)	12-16
MATH	(MATH 2313 or MATH 2413, MATH 2314 or MATH 2414)	6-8
PHYSICS	(PHYS I, PHYS II)	8
	Total Transfer	26-32

Students should check each college or university regarding the transferability of the core curriculum courses.

**For additional information on Field of Study, consult the Coordinating Board website at www.theccb.state.tx.us*

COMPUTER SCIENCE

COSC 1309: Logic Design (3:3-0)

A discipline approach to problem solving with structured techniques and representation of algorithms using pseudo code and graphical tools. Discussion of methods for testing, evaluation and documentation is included.

COSC 1315: Fundamentals of Programming (3:2-2)

Introduction to computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. Lab fee \$24.

COSC 1401: Microcomputer Applications (4:3-2)

Overview of computer information systems. Introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments in society. The fundamentals of computer problem solving and programming in a higher level programming language may be discussed and applied. Lab fee \$24.

COSC 1420: "C" Programming I (4:3-2)

Introduction to computer programming in the "C" or "C++" programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. Lab fee \$24.

COSC 2430: Advanced Structured Languages (4:2-2)

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course. Visual BASIC is the language used. Lab fee \$24.

CRIMINAL JUSTICE
*Field of Study**

The following courses are transferable to all public 4-year colleges and universities in Texas for students seeking a Bachelor of Arts or Bachelor of Science Degree with a major in Criminal Justice, including all Criminal Justice Specializations.

		Sem. Cr. Hr.
CRIJ 1301	Introduction to Criminal Justice.....	3
CRIJ 1306	Court Systems and Practices	3
CRIJ 1310	Fundamentals of Criminal Law	3
CRIJ 2313	Correctional Systems and Practices	3
CRIJ 2328	Police Systems and Practices	3
	Total Transfer	15

Note: Up to a total of 6 additional semester credit hours of criminal justice related lower division course work may be transferred by local agreement OR required by the receiving institution, as long as the additional credit does not duplicate any other requirement within the field of study curriculum.

Students should check each college or university regarding the transferability of the core curriculum courses.

**For additional information on Field of Study, consult the Coordinating Board website at www.thecb.state.tx.us.*

CRIJ 1301: Introduction to Criminal Justice (3:3-0)

History, philosophy, and ethical considerations of criminal justice; the nature and impact of crime; and an overview of the criminal justice system, including law enforcement and court procedures.

CRIJ 1306: Court Systems and Practices (3:3-0)

Study of the judiciary in the American criminal justice system and the adjudication processes and procedures.

CRIJ 1307: Crime in America (3:3-0)

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

CRIJ 1310: Fundamentals of Criminal Law (3:3-0)

Study of criminal law, its philosophical and historical development, major definitions and concepts, classifications and elements of crime, penalties using Texas statutes as illustrations, and criminal responsibility.

CRIJ 1313: Juvenile Justice System (3:3-0)

A study of the juvenile justice process to include specialized juvenile law, role of juvenile law, role of juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

CRIJ 2301: Community Resources in Corrections (3:3-0)

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

CRIJ 2313: Correctional Systems and Practices (3:3-0)

Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

CRIJ 2314: Criminal Investigation (3:3-0)

Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation. Prerequisites: CRIJ 1301 and CRIJ 1310

CRIJ 2323: Legal Aspects of Law Enforcement (3:3-0)

Police authority; responsibilities; constitutional restraints; laws of arrest, search, and seizure; police liability.

CRIJ 2328: Police Systems and Practices (3:3-0)

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues. Prerequisites: CRIJ 1301 and CRIJ 1310

DRAMA/THEATRE

DRAM 1121: Theatre Practicum II (1:0-3)

This is a laboratory course for extensive participation in theatre activities. It consists of work in drama for public presentation, backstage work, use of makeup, properties, lighting, and other facets of technical theatre. An average of three hours each week or a minimum of forty-eight hours of participation during the semester is required. This course may be repeated for credit. Maximum of 4 credits.

DRAM 1310: Introduction to Theatre (3:3-0)

A general survey of all phases of theatre with emphasis on the various types and styles of plays, elementary theory, introduction to acting and directing, and introduction to technical production. Designed as a theatre appreciation course for the non-drama major and an introduction to theatre activities for the drama major. R, W

DRAM 1330: Stagecraft I (3:3-2)

An introduction to the fundamentals of technical theatre. Basic techniques of play production including scenery design and construction, make-up, costuming, properties, and lighting.

DRAM 1341: Make-Up (3:3-2)

The theory and practice of make-up for the stage. Principles of designing and applying make-up for characters in a play. Intensive practical application.

DRAM 1351: Acting I (3:3-0)

A study of characterization and the creation of roles for the stage including study of voice production, study of movement, and practice in scenes from plays. Role playing through improvisations is used as a foundation for the course. R.

DRAM 1352: Acting 11 (3:3-2)

An extensive study of practical experience in creating characterization. Emphasis on development of vocal and physical skill in acting through performances in solo acting, duet acting, group scenes from plays, and participation in productions staged by the College. Prerequisite: DRAM 1351 or consent of instructor. R, W

DRAM 2336: Voice for the Theatre (3:3-0)

Physiology and mechanics of effective voice production with practice in articulation, pronunciation, and enunciation. Introduction to the International Phonetic Alphabet. This is the same course as SPCH 1342 but can be taken for Theatre credit. Credit will not be granted for both DRAM 2336 and SPCH 1342. R, W

DRAM 2366: Development of the Motion Picture I (3:3-2)

Analysis of the visual and aural aspects of selected motion pictures. Important classic films will be viewed to illustrate the historical growth and sociological impact of film as an art. R, W

ECONOMICS

ECON 2301: Principles of Macroeconomics (3:3-0)

Introduction to the fundamental principles underlying the economic problem; special emphasis on the aggregate economics analysis; determinants of national income and business cycles; money and banking; fiscal and monetary policy; inflation and unemployment; economic growth.

ECON 2302: Principles of Microeconomics (3:3-0)

Introduction to economic principles underlying the business organization in relation to the market economy, theory of the firm, monopoly, poverty, problems of the labor market, international trade.

EDUCATION

Generalist: Grades EC-4, (except Early Childhood Degree Specialization) 4-8, EC-12 Certification, ASSOCIATE OF ARTS IN TEACHING

First Semester

EDUC 1301	Introduction to the Teaching Profession.....	3
ENGL 1301	Composition I.....	3
MATH 1314	College Algebra	3
NATURAL SCIENCE	***See Core Curriculum.	4
PHED	1
	Total Hours	16

Second Semester

ENGL 1302	Composition II.....	3
MATH 1350	Fundamentals of Mathematics I	3
HIST 1301	United States History I or HIST 2301*	3
NATURAL SCIENCE	***See Core Curriculum	4
PHED	1
	Total Hours	14

Third Semester

MATH 1351	Fundamentals of Mathematics II	3
ENGL 2322	British Literature I or	
ENGL 2323	British Lit II	3
SPCH 1311	Intro to Speech Communications	3
ENVR 1301	Environmental Science	3
GOVT 2301	American Government I.....	3
	Total Hours	15

Fourth Semester

HIST	1302	United States History II or HIST 2301*	3
PSYC	2301	General Psychology	3
GOVT	2302	American Government II.....	3
ARTS	1301	Art Appreciation or MUSI 1301.....	3
EDUC	2301	Introduction to Special Populations**	3
PHYS	1311	Introductory Astronomy	3
		Total Hours	18
		TOTAL AAT HOURS.....	61

*6 hours with 3 hours in U.S. History

**Meets multicultural requirement

***Transferable, accepted by transferring institution

TEMPLE COLLEGE
Associate of Arts:
Grades EC-4, (except Early Childhood Specialization) 4-8,
EC-12 Certification
Field Experience Course Descriptions

EDUC 1301—Introduction to the Teaching Profession (3:2:2)

An enriched integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; and includes a 30 contact hour lab component, 15 hours of which must be in P-12 schools.

EDUC 2301—Introduction to Special Populations (3:2:2)

An enriched integrated pre-service course and content experience that provides an overview of schooling and classrooms from the perspective of language, gender, socioeconomic status, ethnic, and academic diversity and equity with an emphasis on factors that facilitate learning; provides students with opportunities to participate in early field observations of P-12 special populations; includes a 30 contact hour lab component, 15 hours of which must be with special populations in P-12 schools. Prerequisite: EDUC 1301.

ENGINEERING

ENGR 1201: Introduction to Engineering (2:2-0)

An introduction to engineering and its branches of specialization by examining current practices of the profession. Covers technical areas including computational methods and presentation of problem solutions with emphasis on the computer as an engineering tool. Introduction to MATLAB structured programming. Required for all engineering majors. Recommended for all mathematics and physical science majors. Class meets for two lecture hours a week. Usually offered in spring semester only. R, W, M

ENGR 1304: Engineering Graphics I (3:2-3)

Study of the basic skills necessary for CAD drawings, including solid modeling. Prerequisite: Admission credit in geometry and trigonometry, or credit or enrollment in MATH 1316 or MATH 1348 or MATH 2312, or permission of the instructor. \$24 lab fee. R, W, M

ENGR 2301: Engineering Mechanics I - Statics (3:3-0)

A comprehensive study of the engineering methods and applications of equilibrium, including free-body diagrams, force systems, trusses, beams, cables, friction, distributed loads, centroids, and moment of inertia. Vector algebra and calculus are used. Offered when sufficient demand exists. Prerequisites: PHYS 2425 or permission of the instructor and credit or registration in MATH 2414. R, W, M

ENGR 2302: Engineering Mechanics II - Dynamics (3:3-0)

A study of kinematics and dynamics, including work-energy and impulse-momentum methods, applied to engineering problems involving particles and rigid bodies. Vector algebra and calculus are used. Offered when sufficient demand exists. Prerequisites: ENGR 2301 and MATH 2414. R, W, M

ENGLISH

ENGL 0301: Basic Writing I (3:3-0)

This course stresses mastery of fundamentals of language in writing. The course emphasizes mastery of basic grammar and mechanics and basic compositional skills. The construction of well-organized paragraphs will be stressed. Must make a grade of "A" or "B" to attempt next level.

ENGL 0302: Basic Writing II (3:3-0)

This course stresses individual self-expression through language. It provides opportunities for students to express their ideas through written composition. Basic forms of rhetoric are analyzed. This course will focus on the skills needed to write 300-600 word essays. Must make a grade of "A" or "B" to complete the Basic Writing program.

ENGL 0307: English as a Second Language (3:3-0)

This course is a concentrated study of vocabulary, pronunciation, and sentence structure. It includes review of grammatical structure, exposure to common sentence-level grammatical mistakes, and an introduction to the basic principles of composition. The course will emphasize computer-assisted instruction through the Learning Assistance Center.

ENGL 1301: Composition I (3:3-0)

The course consists of an intensive study of the principles of writing, analysis and discussion of expository selections, theme writing, collateral reading, and grammar. W

ENGL 1302: Composition II (3:3-0)

Emphasis is placed on the careful reading of, and critical and analytical writing about, selected literary genre. Research writing is required. Prerequisite: ENGL 1301 or credit for ENGL 1301 by examination. W

ENGL 2307: Creative Writing I (3:3-0)

This course offers an introduction to creative writing. It is designed to encourage students to express themselves in positive ways. The course will concentrate on writing short stories, poems, and short narratives. R, W

ENGL 2308: Creative Writing II (3:3-0)

This course offers an opportunity to enhance creative writing skills. The course will focus on writing short stories, poems, and/or longer narratives. Submission procedures for publication will also be covered. R, W

ENGL 2311: Technical and Business Writing (3:3-0)

This course is designed for science, pre-engineering, computer-aided design, computer information systems, entertainment and business software development, child development, dental hygiene, nursing (ADN), general business and management students. The course covers the writing of letters, reports, memoranda, proposals, progress reports, and resumes. The course includes audience analysis and empirical research. The preparation and presentation of oral reports include PowerPoint and/or video presentations. The student will also use word-processing programs. Prerequisite: ENGL 1301 or consent of the instructor. R, W

ENGL 2322: British Literature I (3:3-0)

This course is a survey of English Literature from the Old English Period through the Eighteenth Century. A study of prose and poetry, assigned reading, essays, and tests constitute the work of the course. Research writing is required. Prerequisite: ENGL 1302 or ENGL 2311. R

ENGL 2323: British Literature II (3:3-0)

This course is a continuation of the study of English Literature from the Romantic Period through the Modern Period. A study of prose and poetry, assigned reading, essays, and tests constitute the work of the course. Research writing is required. Prerequisite: ENGL 1302 or ENGL 2311. R

ENGL 2327: American Literature I (3:3-0)

This course is a historical and critical study of the major poetry and prose writers from the Puritan Period to the Civil War. A study of prose and poetry, assigned reading, essays, and tests constitute the work of the course. Research writing is required. Prerequisite: ENGL 1302 or ENGL 2311. R

ENGL 2328: American Literature II (3:3-0)

This course, a continuation of the study of American Literature, is a historical and critical study of the major poetry and prose writers from the Reconstruction Period to the Present. A study of prose and poetry, assigned reading, essays, and tests constitute the work of the course. Prerequisite: ENGL 1302 or ENGL 2311. R

ENGL 2332: World Literature I (3:3-0)

A study of Western World Literature from the Classical Period to the Renaissance. Writing intensive. Prerequisite: ENGL 1302 or ENGL 2311. R

ENGL 2333: World Literature II (3:3-0)

A study of Western World Literature from the Neoclassical Period to the present. Writing intensive. Prerequisite: ENGL 1302 or ENGL 2311. R

ENVIRONMENTAL SCIENCE

ENVR 1101: Environmental Science Laboratory I (1:0-2)

The laboratory will provide practical exposure to the methods of measurement, analysis and interpretation of environmental data. The student, in addition to doing lab experiments, will be involved in the collection of data from the environment and report preparation. Prerequisite: ENVR 1301 or concurrent enrollment in ENVR 1301. \$40 lab fee. R

ENVR 1301: Environmental Science I (3:3-0)

This is a one semester course designed for non-science majors, and others who desire a low mathematical view of environmental science. It is a general interest course requiring a minimum of previous science background. The course involves relating scientific knowledge to problems involving energy and the environment and addressing issues that range from local to global effects. Topics include energy resources, water, mineral resources, air and water pollutants, pesticides and other toxic chemicals, solid and hazardous wastes, crowding, land use and abuse, economic considerations and some governmental regulatory agencies. R

FRENCH

FREN 1411: Beginning French I (4:3-2)

Students study the French language and culture. Emphasis is placed on grammar and speaking skills. This is a foundation course in which basic communication skills of the French language are developed. Language Lab will be a part of class instruction.

FREN 1412: Beginning French II (4:3-2)

A continuation of FREN 1411 with increasing emphasis on using French to give and receive non-memorized information. This course teaches the structural patterns necessary to convey messages. Prerequisite: FREN 1411.

FREN 2311: Intermediate French I: Oral Expression, Reading and Composition (3:3-0)

An expansion of the study of structural patterns in French. The course will continue to provide information on the cultural and linguistic elements of French. Students will work on oral expression, reading, comprehension, and composition.

FREN 2312: Intermediate French II: Oral Expression, Reading and Composition (3:3-0)

A continuation of the study of the French language. The course will continue to advance through the study of the cultural and linguistic elements of French. Students will work on oral expression, reading, comprehension, and composition. Prerequisite: FREN 2311 or equivalent.

GEOGRAPHY

GEOG 1300: Principles of Geography (3:3-0)

The basic elements of cultural and physical geography. This will include maps, weather and climate, land forms, population, urban, nations, states, and other related topics.

GEOG 1301: Physical Geography (3:3-0)

A study of the earth as the habitat of man; an interpretative description of the earth in space; maps; weather and climate; spatial distribution of land forms, soils, water, minerals, plants and animals. Usually offered only in the spring semester.

GEOG 1302: Cultural Geography (3:3-0)

Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living and map concepts.

GEOG 1303: World Regional Geography (3:3-0)

A study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions.

GEOG 2312: Economic Geography (3:3-0)

Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing. (Also known as ECON 2311)

GEOG 2389: Academic Cooperative (3:2-4)

An instructional program designed to integrate on-campus study with practical hands-on experience in geography. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions. \$16 Lab fee.

GEOLOGY

GEOL 1103: Physical Geology Laboratory (1:0-2)

The laboratory includes investigation of current and past geologic events as well as identification of the different rock types. Laboratory examinations and experiments as well as computer modeling and simulations will be used. Optional field trips may be offered. Prerequisite: GEOL 1303 or concurrent enrollment in GEOL 1303. \$24 lab fee. R, W

GEOL 1303: Physical Geology (3:3-0)

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. R, W

GEOL 1305: Environmental Geology (3:3-0)

This course studies the earth as a habitat. The main focus is on the interrelationships between humans and the environment with emphasis placed on the geological aspect. Some topics to be included are water resources, mass wasting, geology and climate interactions, soil resources, mineral and energy resources, and pollution. Environmental law and land use planning may also be studied. Prerequisite: GEOL 1303. R,W

GOVERNMENT

GOVT 2301: American Government I (3:3-0)

This course surveys the origin and development of the U.S. and Texas Constitutions, federalism, interstate relations, political parties, interest groups, political campaigns, and elections. Meets Texas teacher certification requirement. GOVT 2301 and GOVT 2302 are separate courses and neither is prerequisite for the other. Either may be taken first or both may be taken in the same semester. R

GOVT 2302: American Government II (3:3-0)

Primary emphasis is on the legislative, executive, and judicial systems of local, state, and federal governments as established in the Texas and U.S. Constitutions. Included are the bureaucracy and selected problems in making public policy. Meets Texas teacher certification requirement. GOVT 2301 and GOVT 2302 are separate courses and neither is prerequisite for the other. Either may be taken first, or both may be taken in the same semester. R

HISTORY

HIST 1301: United States History I (3:3-0)

A general survey of the United States from the period of discovery through the Reconstruction. Requirement for Associate in Arts Degree and teacher certification. R,W.

HIST 1302: United States History II (3:3-0)

A continuation of History 1301. The history of the United States since the Reconstruction to the present time. Requirement for Associate in Arts Degree and teacher certification. R,W.

HIST 2301: Texas History (3:3-0)

This course gives a rapid survey of the history of Texas. Topics stressed include: European approach to Texas, Spanish and French rivalry, exploration and settlement by the Spanish, the coming of the Anglo-Americans, relations with Mexico, Texas Revolution, Republic, annexation, statehood, reconstruction, recovery and development with special emphasis on Texas in the 20th Century. R, W

HIST 2311: Western Civilization I (3:3-0)

A general survey of western civilization from prehistoric times to 1600. R, W

HIST 2312: Western Civilization II (3:3-0)

A general survey of western civilization from 1600 to the present. R, W

HUMANITIES

HUMA 1301: Introduction to the Humanities I (3:3-0)

An exploration of human values significant to western civilization, incorporating influences of Asian and African cultures through great works of philosophy, architecture, literature, music and the visual arts from prehistory to the twentieth century. Interdisciplinary, multi-perspective assessment of factors critical to the formulation of values of the individual and society. R, W

HUMA 1302: Introduction to the Humanities II (3:3-0)

A continuation of HUMA 1301 focusing on the students' directed studies of two or more cultural systems through the application of principles and skills found in the several humanities disciplines. Emphasis will be placed on the diversity of ethnic and national cultures represented in America today. R, W

MATHEMATICS

Any student enrolled in a mathematics course at Temple College will be eligible to attend a mathematics lab. The lab will be open at least 35 hours each week and will be staffed by the lab director, regular math faculty members and peer tutors. Lab attendance of at least one hour per week will be required for Individual Developmental Math I and II and Introduction to Algebra. These students may also meet lab attendance requirements by attending other sessions instituted by the College, as approved by the chair of the Mathematics Department.

MATH 0300: Individual Development (3:3-1)

This is a pre-algebra course. It covers fractions, decimals, ratio and proportion, percent, a few geometric facts, statistical graphs, signed numbers, a brief introduction to linear equations. Students will review the elements of the assessment test, as well as topics such as studying mathematical topics, applications of mathematics, and math anxiety. Lab required. Prerequisite: Not passing an assessment test. \$15 Lab Fee. This course also requires a course (license) fee

MATH 0301: Individual Developmental Math II (3:3-1)

A continuation of MATH 0300. A student who completes all Basic Math objectives will begin to study algebra elements for an assessment test. Lab Required. Prerequisite: Math 0300. \$15 Lab Fee. This course also requires a course (license) fee.

MATH 0302: Introduction to Algebra (3:3-1)

This course covers topics from the first year of algebra: operations with signed numbers, solving linear equations, graphing lines, exponent rules, operations with polynomials, factoring, solving linear systems, introduction to solving quadratic equations. Lab required. Prerequisite: A grade of B or better in MATH 0301 or a satisfactory score on the placement test. \$15 Lab Fee. This course also requires a course (license) fee.

MATH 0303: Intermediate Algebra (3:3-0)

This course covers topics from the second year of algebra: operations with polynomials, factoring, algebraic fractions, rational expressions, fractional exponents, operations with radicals, variation, graphing two-variable linear inequalities, solving linear inequalities, absolute value equalities and inequalities, solving quadratic equations. Students will be required to use a calculator. Prerequisite: B in MATH 0302 or pass an assessment test or satisfactory score on placement test. \$15 Lab Fee. Course (license) fee applies for students at the Taylor and Cameron sites.

MATH 1314: College Algebra (3:3-0)

This course explores the properties of several common types of functions along with their graphs. Functions include polynomial, rational, exponential, logarithmic, and inverses. Methods of solving systems of equations and an introduction to matrices are also studied. Students will be required to use a calculator. Prerequisite: MATH 0303 or 270 on an assessment test or Texas Success Initiative exempt (ACT, SAT, TAAS). \$15 Lab Fee. M

MATH 1316: Plane Trigonometry (3:3-0)

This course consists of a study of trigonometric functions, trigonometric identities, radian and degree measure, graphs of trigonometric functions, trigonometric equations, solutions of triangles, inverse trigonometric functions, and vectors. Students will be required to use a calculator. Prerequisite: MATH 0303 or MATH 1314 or 270 on an assessment test or Texas Success Initiative exempt (ACT, SAT, TAAS). \$15 Lab Fee. M

MATH 1324: Mathematics for Business and Social Science I (3:3-0)

This course covers linear and quadratic functions, matrices, linear programming, compound interest, and probability and descriptive statistics. Students will be required to use a calculator. Prerequisite: MATH 0303 or MATH 1314 or 270 an assessment test or Texas Success Initiative exempt (ACT, SAT, TAAS). \$15 Lab Fee. M

MATH 1325: Mathematics for Business and Social Science II (3:3-0)

This course includes topics in functions and relations, coordinate geometry, slopes, limits and continuity, derivatives and differentiation, maxima and minima, antiderivatives, summations and integration, and applications of polynomial and transcendental calculus, including functions of two variables. Students will be required to use a calculator. Prerequisite: MATH 1314 or MATH 1324. \$15 Lab Fee. M

MATH 1332: Contemporary Mathematics I (3:3-0)

This course consists of a study of linear and exponential growth, descriptive statistics, personal finance, and other applications of simple modeling. It emphasizes using critical thinking to make decisions based on information. Some sections will be designated as technical sections and place emphasis on technology applications. Prerequisite: Pass an assessment test or a grade of B or better in MATH 0302. \$15 Lab Fee. M

MATH 1333: Contemporary Mathematics II (3:3-0)

This course is a continuation of MATH 1332. Topics may include geometry, right triangle trigonometry, and sampling theory. The emphasis will be on mathematically based critical thinking. Prerequisite: Pass an assessment test or a grade of "B" or better in MATH 0302. \$15 Lab Fee. M

MATH 1348: Analytic Geometry (3:3-0)

This course includes the study of Cartesian and polar coordinates, graphs of functions and relations, algebraic solutions of systems of relations and functions, parametric equations, vectors and direction cosines. Vector concepts are an integral part of this course. Students will be required to use a calculator. Prerequisite: MATH 1314 and MATH 1316. \$15 Lab Fee. M

MATH 1350: Fundamentals of Mathematics I (3:3-0)

Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational and real number systems with an emphasis on problem solving and critical thinking. Prerequisite: MATH 1314 or MATH 1332. \$15 Lab Fee. M

MATH 1351: Fundamentals of Mathematics II (3:3-0)

Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving. Prerequisite: MATH 1350. \$15 Lab Fee. M

MATH 2318: Linear Algebra (3:3-0)

Systems of linear equations, vector spaces, linear dependence, bases, and dimensions; inner product, matrices and determinants, and permutations. Prerequisite: MATH 2413.

MATH 2320: Differential Equations (3:3-0)

Differential equations of first, second, and higher order, solution in series, partial differential equations of first order, systems of partial differential equations, applications, and Laplace transformations. Students will be required to use a calculator. Prerequisite: At least six semester hours of calculus. M

MATH 2342: Elementary Statistical Methods (3:3-0)

This course includes topics from probability and statistics. Emphasis is on the use of various distributions, measurements, sampling methods, hypothesis testing, and written analysis of results. Regression analysis is included. Students will be required to use a calculator and/or a computer. Prerequisite: MATH 1314 or MATH 1324. R, W, M

MATH 2412: Pre-calculus Math (4:4-0)

This course includes an integrated treatment necessary for calculus. Topics include trigonometric functions, trigonometric identities, radian and degree measure, graphs of trigonometric functions, trigonometric equations, solutions of triangles, inverse trigonometric functions, vectors (parametric and polar representations are included), conic sections, sequences and series, and mathematical induction. Students will be required to use a calculator. Prerequisite: MATH 1314 or its equivalent or Texas Success Initiative exempt (ACT, SAT, TAAS). M

MATH 2413: Calculus I (4:4-0)

This course includes limits and continuity, differentiation of algebraic functions, various applications of the derivatives, maxima and minima, differentials and antidifferentiation, mean value theorem for derivatives, integration of simple forms and constant of integration, the definite integral, differentiation and integration of transcendental functions, and L'Hospital's rule. Students will be required to use a calculator. Prerequisite: High school calculus, MATH 2412 or MATH 1348. MATH 1348 and MATH 2413 may be taken simultaneously. M

MATH 2414: Calculus II (4:4-0)

This course covers formal integration by various techniques, calculus of polar and parametric forms, Taylor polynomials, sequences and series, power series, and applications of the definite integral. Students will be required to use a calculator. Prerequisite: MATH 2413. M

MATH 2415: Calculus III (4:4-0)

This course involves multivariable calculus with applications, three-dimensional analytic geometry, and calculus of vector fields. Students will be required to use a calculator. Prerequisite: MATH 2414. M

MUSIC

The Music Department of Temple College offers a wide selection of opportunities for students. Students who have majors and minors outside of music are encouraged to participate in music courses, ensembles, and applied instruction for a better perspective on the humanities and improved self-expression.

A full two-year program is offered for the music major and minor who will pursue a Bachelor's degree. In addition to the traditional music curriculum, the Music Department offers courses in commercial music.

Music scholarships are available to deserving students, regardless of major. Interested students should contact the Division of Fine Arts for audition times and details.

Music Field of Study *

1st Semester, Freshman

		Hours:
MUSI 1116	Elementary Sight Singing and Ear Training I	1
MUSI 1311	Music Theory I.....	3
MUSI 1398	Introduction to Music Literature I	3
MUSI 1181	Class Piano I	1
	Applied music:.....	2
	Ensembles	1
	Total:	11

2nd Semester, Freshman

MUSI 1117	Elementary Sight Singing and Ear Training II	1
MUSI 1312	Music Theory II	3
MUSI 1182	Class Piano II	1
	Applied music:.....	2
	Ensembles	1
	Total:	8

1st Semester, Sophomore

MUSI 2116	Advanced Sight Singing and Ear Training I.....	1
MUSI 2311	Music Theory III	3
MUSI 2114	Keyboard Skills I.....	1
	Applied music:.....	2
	Ensembles	1
	Total:	8

2nd Semester, Sophomore

MUSI 2117	Advanced Sight Singing and Ear Training II	1
MUSI 2312	Music Theory IV.....	3
MUSI 2115	Keyboard Skills II	1
	Applied music:.....	2
	Ensembles	1
	Total:	8

Grand Total: **35**

Core Curriculum for Music Majors

English (ENGL1301, 1302, or 2311)	6
Speech (SPCH 1311, 1315, 1318, 1321).....	3
Government (GOVT 2301, 2302)	6
History (HIST 1301, 1302, 2301, 2370).....	6
Science	3
Math	3
Fine Arts or Humanities (excluding MUSI 1306 Creative Listening)	3
Physical Education	1
Total:	31

Exceptions: In the case of non-piano majors, individual instruction in piano can be substituted for Class Piano and Keyboard skills courses with the permission of the instructor. The student will be required to take 4 hours of individual instruction in lieu of class piano.

Class piano and keyboard skills are not required of piano majors. Piano majors are required to have 4 hours of individual instruction on a different secondary instrument, jazz piano, or voice in lieu of class piano and keyboard skills.

Students should check each college or university regarding the transferability of the core curriculum courses.

**For additional information on Field of Study, consult the Coordinating Board website at www.theccb.state.tx.us*

MUSIC

MUSI 1116: Elementary Sight Singing and Ear Training I (1:1-2)

Aural training in the recognition of scales, intervals, triads, harmonic cadences, rhythmic patterns, and meters. Singing of intervals and simple melodies.

MUSI 1117: Elementary Sight Singing and Ear Training II (1:1-2)

A continuation of MUSI 1116 with advanced exercises in the hearing and singing of music. Prerequisite: MUSI 1116 or permission of the instructor.

MUSI 1171: Student Recital (1:0-3)

Recital attendance credit for music majors and minors. Required of all music majors and minors. This course may be repeated for credit. Maximum of 4 credits.

MUSI 1263: Improvisation I (2:2-1)

Materials and practices for improvisation or extemporaneous playing and /or singing.

MUSI 1264: Improvisation II (2:2-1)

Materials and practices for improvisation or extemporaneous playing and/or singing. Prerequisite: MUSI 1263

MUSI 1301: Fundamentals of Music I (3:3-0)

A basic introduction to the elements of music. Study includes the staff, clefs, rhythms, key signatures, scales, and chords. Introductions to sight singing, ear training, and keyboard skills. The course is for non-music majors and for music majors or minors with little or no background in music.

MUSI 1302: Fundamentals of Music II (3:3-0)

Continuation of the basic study of music notation, chord structure, intervals, and terminology. To recognize visually and aurally major, minor, diminished, augmented chords and intervals. The students will learn and be able to impart rudimentary elements of keyboard study to beginning pupils. Lab sessions to be held at the McGowan-Stephens school.

MUSI 1306: Music Appreciation (3:3-0)

A non-technical approach to the enjoyment of music with emphasis on intelligent listening procedures of classical, pop, and rock music. Introduction to the cultural periods, major composers, and elements of music. For non-music majors or minors.

MUSI 1308: Music Literature I (3:3-2)

For music majors, music minors, and honors students. A survey of musical forms and cultural periods as illustrated in the literature of major composers. R, W

MUSI 1309: Music Literature II (3:3-2)

A continuation of MUSI 1308. For music majors, music minors, and honors students. R, W

MUSI 1310: American Music (3:3-0)

Offers students an in-depth view of all jazz styles as well as rock, pop, soul, and "new age" music. Extensive listening in and outside of class provides further exposure and understanding of popular music and its relationship with the music industry. Open to any student.

MUSI 1311: Music Theory I (3:2-2)

A course in the elements of music for music majors and minors. Review of the fundamentals of rhythm, melody, and harmony including study of the staff, clefs, key signatures, scales, time signatures, and notation. Part writing of figured bass exercises and melody harmonization requiring the principal triads. Prerequisite: MUSI 1301 or permission of the instructor.

MUSI 1312: Music Theory II (3:2-2)

Continuation of MUSI 1311. Part writing of figured bass exercises and melody harmonization requiring all diatonic triads, the dominant seventh and supertonic seventh chords, and non-harmonic tones. Prerequisite: MUSI 1311 or permission of the instructor.

MUSI 2116: Advanced Sight Singing and Ear Training I (1:1-2)

Singing modulations to closely related keys: modal melodies. Aural study of compound intervals, melodic and harmonic modulation, and all diatonic seventh chords. Prerequisite: MUSI 1117.

MUSI 2117: Advanced Sight Singing and Ear Training II (1:1-2)

Singing remote modulations and more difficult melodies. Aural study of unusual and mixed meters, remote modulation, altered chords, 9th, 11th, and 13th chords. Prerequisite: MUSI 2116

MUSI 2311: Music Theory III (3:2-2)

Analysis and part writing of materials involving altered chords, sevenths, and modulations.
Prerequisite: MUSI 1212.

MUSI 2312: Advanced Theory IV (3:2-2)

Continuation of MUSI 2211. Completion of the study of music elements from the standard practice period. Survey of 20th Century techniques. Prerequisite: MUSI 2211

ELECTRONIC MUSIC

MUSC 1327: Audio Engineering I (3:2-2)

Overview of the recording studio. Topics include basic studio electronics and acoustic principles, wave form analysis, microphone concepts and miking techniques, studio set up and signal flow, recording console theory, signal processing concepts, tape machine principles and operation, and an overview of mixing and editing.

MUSI 1390: Electronic Music I (2:2-2)

An introduction to MIDI and its applications. Use of computer, MIDI interface, synthesizers, drum machine and digital audio in developing musical projects. Competency developed with music sequencing and graphics software. Open to all students.

ENSEMBLES

All ensembles are open to all students regardless of major. Performing ensembles serve three distinct purposes: (1) they provide music majors with the ensemble participation necessary for successful completion of their music degree; (2) they provide those not majoring in music an enjoyable outlet, the experience of self-expression, and the social development that results from participation in a group activity; (3) they serve as valuable public relations agents for the College, and for this reason, students have the opportunity to travel and perform at a variety of functions. A great way to get involved at Temple College is to become a member of one of the performing ensembles.

All music majors and minors are required to participate in a minimum of one major ensemble during each semester they are in residence.

All ensembles may be repeated for credit. Maximum of 8 credits each.

VOCAL ENSEMBLES

MUEN 1141: Show Choir (1:0-5)

Open to any student by audition only. Rehearsal and performance of popular songs and music of the Broadway stage. Extensive performance opportunities including song and dance combinations.
Maximum of 8 credits

MUEN 1142: Chorale (1:0-5)

Open to any student by audition only. Designed to give participants a more challenging, stylized choral experience. Performs a wide variety of literature (including instrumental-choral), emphasizing the more difficult choral works. Presents concerts on campus and at various functions in the area.
Maximum of 8 credits

MUEN 1143: Swing Choir (1:0-5)

Open to any student by audition only. Rehearsal and performance of vocal swing/jazz including music from the 1930's through present. Will perform on and off campus. Maximum of 8 credits

INSTRUMENTAL ENSEMBLES

MUEN 1121: Symphonic Band (1:0-5)

Open to any instrumentalist by audition only. Performs a wide range of literature from popular selections to the more advanced works for wind ensemble. Presents concerts on campus and at various functions in the area. Maximum of 8 credits

MUEN 1122: Jazz Orchestra (1:0-5)

Open to any instrumentalist by audition only. Offers students an intensive study and experience with jazz and other big band literature. Travels in the Central Texas area presenting concerts at high schools, civic functions, etc. Maximum of 8 credits

MUEN 1123: Orchestra (1:0-5)

Open to any instrumentalist by audition only. Gives players the opportunity to perform in a large orchestral ensemble. Performs in a wide variety of music from popular to more serious orchestral literature. Presents concerts on the TC campus. Maximum of 8 credits

MUEN 1124: Jazz Ensemble (1:0-5)

Open to any instrumentalist by audition only. Offers students experience in big band styles and jazz improvisation. Presents concerts on campus and throughout the community. Maximum of 8 credits

MUEN 1131: Chamber Ensemble (Mixed) (1:0-2)

Rehearsal and performance of chamber music literature for small groups, including strings, woodwinds, brass, piano, and voice. Will perform on and off campus. Maximum of 8 credits

MUEN 1132: Chamber Ensemble (Piano) (1:0-2)

Required for all piano majors or piano emphasis students. A study of piano technique and literature with a participation in ensemble performances. Maximum of 8 credits

MUEN 1133: Chamber Ensemble (String) (1:0-2)

Open to any string player. No audition required. Gives string players experience in playing chamber orchestra literature. Presents concerts on campus and accompanies other campus ensembles in major musical works. Maximum of 8 credits

MUEN 1134: Chamber Ensemble (Woodwind) (1:0-2)

Rehearsal and performance of chamber music for woodwinds, with emphasis on the development of the literature from 1700 to the present. Maximum of 8 credits

MUEN 1135: Chamber Ensemble (Brass) (1:0-2)

Rehearsal and performance of chamber music for brass instruments, with attention focused on the development of the literature from 1550 to the present. Maximum of 8 credits

MUEN 1136: Chamber Ensemble (Percussion) (1:0-2)

Rehearsal and performance of chamber music for percussion, with emphasis on Twentieth Century literature. Maximum of 8 credits

MUEN 1137: Chamber Ensemble (Low Brass) (1:0-2)

Rehearsal and performance of chamber music for low brass instruments. Maximum of 8 credits

MUEN 1138: Chamber Ensemble (Flute) (1:0-2)

Open to any student by audition only. Rehearsal and performance of chamber music for flute. Maximum of 8 credits

MUEN 1139: Chamber Ensemble (Guitar) (1:0-2)

Offers the guitarist the opportunity to rehearse and perform with other guitarists. This ensemble presents concerts throughout the school year on and off the TC campus. For beginners to advanced players. Maximum of 8 credits

MUEN 1140: Jazz Combo (1:0-2)

The jazz combo is a small select instrumental group that performs compositions from a variety of jazz styles such as samba, bossa nova, swing, bebop, and fusion. Students will also study the historical development of jazz and the fundamentals of improvisation, interpretation, and performance of jazz. Maximum of 8 credits

MUEN 2131: Collegium Musicum (1:0-2)

Collegium Musicum is a chamber ensemble devoted to the rehearsal and performance of early music with emphasis on historical accuracy of style, instruments, and other musical considerations. The ensemble concentrates on western art music of the Middle Ages, Renaissance, and Baroque eras, although art music of other regions and folk music may also be included. Maximum of 8 credits

MUSICAL THEATRE/OPERA

MUSI 1159: Musical Theatre I (1:0-5)

Open by audition to all students. Considers stage movement, use of voice in musical theatre, spoken dialogue, and musical theatre acting. Culminates in public performance of a complete musical. This course may be repeated for credit. Maximum of 2 credits.

MUSI 1258: Opera Workshop (2:0-3)

Required of all voice concentrates and open by permission to all other students by audition; will consider the development and use of the voice in theatre; culminates in some variety of opera scenes or short opera for public performance. This course may be repeated for credit. Maximum of 4 credits.

APPLIED MUSIC

Class or private study is available to all students of the College on both beginning and advanced levels of instruction. Lessons are offered in brass, guitar, organ, percussion, piano, strings, voice, and woodwinds.

Detailed requirements in the technique and repertoire for each of the course numbers may be obtained from the Music Department Office, the applied instructors, and the College Advising Office.

Students who register for private instruction in voice, piano, or instruments must understand that all private instruction is scheduled TBA ("to be arranged"), meaning that the day and time for lesson(s) each week is "to be arranged" with the teacher of that applied area. Consequently, the student must contact the teacher to arrange his lesson time(s) during the first week of the semester. Class instruction is scheduled in regular class periods.

All music majors are required to take two-hours credit in their principal instrument. Music minors are required to take one-hour credit in their principal instrument. No student is allowed to take more than four hours of applied music in any one semester.

The organizational structure of the applied music division allows the student to receive instruction and progress on a level that is consistent with his musical goals. Specifically, non-music majors will be allowed to progress under less rigid standards than music majors.

MUSI 1181: Piano Class I (1:0-2)

Beginning instruction in keyboard for the music major/minor whose principal instrument is other than keyboard and for the beginning non-music major/minor who wants to begin learning basic piano skills.

MUSI 1182: Piano Class II (1:0-2)

A continuation of MUSI 1181.

MUSI 2181: Piano Class III (1:0-2)

Continuation of Class Piano I and II, with emphasis on scales and arpeggios (hands together), harmonization, sight-reading, score reading, ensemble, and simple accompanying.

MUSI 2182: Piano Class IV (1:0-2)

Continuation of Keyboard Skills I with further study given to scales (to include chromatic), arpeggios, broken chords, score reading, solo and ensemble performance, and accompanying.

PRIVATE INSTRUCTION

VOICE - R

MUAP: 1181, 1182, 2181, 2182 (1:0.5/0)
MUAP: 1281, 1282, 2281, 2282 (2: 1/0)

PERCUSSION

MUAP: 1157, 1158, 2157, 2158 (1:0.5/0)
MUAP: 1257, 1258, 2257, 2258 (2: 1/0)

PIANO

MUAP: 1169, 1170, 2169, 2170 (1:0.5/0)
MUAP: 1269, 1270, 2269, 2270 (2:1/0)

JAZZ PIANO

MUAP: 1171, 1172, 2171, 2172 (1:0.5/0)
MUAP: 1271, 1272, 2271, 2272 (2:1/0)

BRASS

TRUMPET

MUAP: 1137, 1138, 2137, 2138 (1:0.5/0)
MUAP: 1237, 1238, 2237, 2238 (2: 1/0)

FRENCH HORN

MUAP: 1141, 1142, 2141, 2142 (1:0.5/0)
MUAP: 1241, 1242, 2241, 2242 (2: 1/0)

TROMBONE

MUAP: 1145, 1146, 2145, 2146 (1:0.5/0)
MUAP: 1245, 1246, 2245, 2246 (2: 1/0)

BARITONE/TUBA

MUAP: 1149, 1150, 2149, 2150 (1:0.5/0)
MUAP: 1249, 1250, 2249, 2250 (2: 1/0)

WOODWINDS

FLUTE

MUAP: 1117, 1118, 2117, 2118 (1:0.5/0)
MUAP: 1217, 1218, 2217, 2218 (2: 1/0)

OBOE

MUAP: 1121, 1122, 2121, 2122 (1:0.5/0)
MUAP: 1221, 1222, 2221, 2222 (2: 1/0)

CLARINET

MUAP: 1129, 1130, 2129, 2130 (1:0.5/0)
MUAP: 1229, 1230, 2229, 2230 (2: 1/0)

SAXOPHONE

MUAP: 1133, 1134, 2133, 2134 (1:0.5/0)
MUAP: 1233, 1234, 2233, 2234 (2: 1/0)

BASSOON

MUAP: 1125, 1126, 2125, 2126 (1:0.5/0)
MUAP: 1225, 1226, 2225, 2226 (2: 1/0)

STRINGS

VIOLIN

MUAP: 1101, 1102, 2101, 2102 (1:0.5/0)
MUAP: 1201, 1202, 2201, 2202 (2: 1/0)

VIOLA

MUAP: 1105, 1106, 2105, 2106 (1:0.5/0)
MUAP: 1205, 1206, 2205, 2206 (2: 1/0)

CELLO

MUAP: 1109, 1110, 2109, 2110 (1:0.5/0)
MUAP: 1209, 1210, 2209, 2210 (2: 1/0)

BASS

MUAP: 1113, 1114, 2113, 2114 (1:0.5/0)
MUAP: 1213, 1214, 2213, 2214 (2: 1/0)

GUITAR-CLASSICAL

MUAP: 1161, 1162, 2161, 2162 (1:0.5/0)
MUAP: 1261, 1262, 2261, 2262 (2: 1/0)

GUITAR-ELECTRIC

MUAP: 1187, 1188, 2187, 2188 (1:05/0)
MUAP: 1287, 1288, 2287, 2288 (2: 1/0)

PHILOSOPHY

PHIL 1301: Introduction to Philosophy (3:3-0)

A study of universal philosophical problems and their solutions with a view toward developing clear thinking about knowledge, belief, and value. About one half of this course will focus on the student's critical thinking skills.

PHIL 1304: Introduction to World Religions (3:3-0)

A study of the origins and development, sacred writings, beliefs, ethics, and practices of the major world religions-Hinduism, Buddhism, Taoism, Confucianism, Islam, Judaism and Christianity. Attention will also be given to the impact of these faiths upon the current world scene.

PHIL 1316: History of Religions I (3:3-0)

A study of the history and literature of the Hebrew people during the Old Testament period with emphasis upon the development of their social, political and religious institutions and ideas.

PHIL 1317: History of Religions II (3:3-0)

A study of the history and literature of the Christian movement during the New Testament period with emphasis upon the origins, development, and expansion of its religious institutions and ideas.

PHIL 2303: Introduction to Logic (3:3-0)

Introduction to the basic principles of logical reasoning. The course will include the laws of thought, the uses of language, the principles of deductive reasoning and a brief introduction to inductive reasoning and the scientific method.

PHIL 2306: Introduction to Ethics (3:3-0)

Introduction to classical and contemporary ethical theories and principles. Includes critical analysis of contemporary and historical moral problems facing individuals and society. Course may emphasize particular applications.

PHIL 2307: Introduction to Social and Political Philosophy (3:3-0)

The course critically examines the issues and problems concerning the organization of societies and government as well as their attendant relationships to the environment. It also employs videos, class discussion, and narrative to discuss the central problems associated with the social, ecological and political relationships of human kind.

PHYSICAL EDUCATION

All activities offered at Temple College are divided into three categories: the regular physical education program; recreational sports and intramural programs; and intercollegiate athletics for both men and women. The regular program of instruction offered by the College is basically designed to offer activities that will not only satisfy graduation requirements, but will be of carry-over value and of recreational interest to the student. This program also carries service courses that may be taken as an elective for the non-major or as a part of required courses towards a major in Physical Education.

Other courses are taught for students pursuing majors in related fields.

The recreational sports program is designed to offer additional activities and intramural sports for students other than those obtained in the regular program of college courses. Individual as well as team activities are offered to both part-time and full-time students. The recreational sport facilities include an indoor swimming pool, gymnasium, fitness center with a cardio room and weight room, racquetball, and tennis court. Further information regarding the intramural program may be obtained from the Recreational Sports/Wellness Director's Office. This information is in the form of an intramural handbook.

Intercollegiate athletics are offered to both men and women. The women's intercollegiate competition is centered around tennis, basketball, volleyball, and softball. The men's program includes the sports of basketball, tennis, and baseball. Students participating in the intercollegiate program should register for intercollegiate athletics under the activity program.

PHED 1301: Introduction to Physical Fitness and Sport (3:3-0)

This course is designed to provide a comprehensive, introductory course on the foundations of physical education and sport. It will acquaint students with the specialized areas of study, career opportunities and the latest thinking and research in the field. Emphasis is placed on the role of Physical Education and sport as a whole and the contribution it makes to society.

PHED 1304: Personal/Community Health I (3:3-0)

This course is designed to help improve the health of the students as well as presenting techniques of improvement of total community health. It strives to bring about an inculcation of proper health skills and attitudes by presenting facts and fallacies about health and proper procedures in combating health problems.

PHED 1306: First Aid (3:3-0)

This course is designed to familiarize the student with the methods, techniques and procedures necessary in caring for injuries. Students may receive certification in Red Cross First Aid.

Lab Fee: \$20

PHED 1308: Sports Officiating I. (3:3-0)

A course designed to study the rules, rule interpretations and mechanics of officiating, and to develop skills and knowledge required in the officiating of volleyball and basketball.

PHYSICAL EDUCATION ACTIVITY COURSES (1:0-3)

A fee of \$8 is charged for each Health and Physical Education Activity course in which a student is enrolled. (Courses in each activity area must be taken in sequence.)

PHED 1101: Intercollegiate Athletics I
PHED 1102: Intercollegiate Athletics II
PHED 1103: Intercollegiate Athletics III
PHED 1104: Intercollegiate Athletics IV
PHED 1105: Intercollegiate Athletics V
PHED 1106: Intercollegiate Athletics VI
PHED 1107: Beginning Volleyball
PHED 1108: Intermediate Volleyball
PHED 2107: Advanced Volleyball I
PHED 2108: Advanced Volleyball II
PHED 1110: Water Aerobics
PHED 1111: Softball I
PHED 1122: Softball II
PHED 2111: Softball III
PHED 2122: Softball IV
PHED 1112: Jogging/Walking/Fitness
**PHED 2112: Advanced Jogging/
Walking/Fitness**
PHED 1113: Weight Training I
PHED 1114: Weight Training II
PHED 2113: Weight Training III
PHED 2114: Weight Training IV
PHED 1115: Basketball I (Men)
PHED 1116: Basketball II (Men)
PHED 2115: Basketball III (Men)
PHED 2116: Basketball IV (Men)
PHED 1117: Basketball I (Women)
PHED 1137: Basketball II (Women)
PHED 2117: Basketball III (Women)
PHED 2137: Basketball IV (Women)

PHED 1118: Baseball (Men)
PHED 1120: Beginning Golf (Coed)
PHED 1121: Intermediate Golf (Coed)
PHED 2120: Advanced Golf I (Coed)
PHED 2121: Advanced Golf II (Coed)
PHED 1123: Beginning Tennis (Coed)
PHED 1124: Intermediate Tennis (Coed)
PHED 2123: Advanced Tennis I (Coed)
PHED 2124: Advanced Tennis II (Coed)
PHED 1126: Beginning Bowling (Coed)
(Bowling Fee \$50)
PHED 1127: Intermediate Bowling (Coed)
(Bowling Fee \$50)
PHED 2126: Advanced Bowling I (Coed)
(Bowling Fee \$50)
PHED 2127: Advanced Bowling II (Coed)
Z(Bowling Fee \$50)
PHED 1129: Beginning Swimming (Coed)
PHED 1130: Intermediate Swimming (Coed)
PHED 2129: Advanced Swimming (Coed)
PHED 1132: Beginning Racquetball
PHED 1133: Advanced Racquetball
PHED 1140: Scuba (Scuba Diving Fee \$75)
PHED 1141: Beginning Aerobics
PHED 1142: Intermediate Aerobics
PHED 2141: Advanced Aerobics I
PHED 2142: Advanced Aerobics II
PHED 1143: Physical Conditioning I
PHED 1144: Physical Conditioning II
PHED 2143: Physical Conditioning III

PHYSICS

PHYS 1111: Introductory Astronomy Laboratory I (1:0-2)

This course is designed to complement PHYS 1311. The course consists of an observational approach to what can be observed in the sky above us, both during the daylight and night times. Binocular and telescope observations will be made of the skies. The student will be involved in making observations, collecting data, and preparing written reports. Prerequisite: PHYS 1311 or concurrent enrollment in PHYS 1311. \$24 lab fee. R

PHYS 1311: Introductory Astronomy I (3:3-0)

This course is designed for those students requiring either a three or four hour science course (four hour requires the accompanying lab) and the desire to know more about their home in the universe. The course presents the subject matter in a descriptive manner, with a minimum of mathematics. The student will be introduced to the night sky, the motions of the planets, the sun and our planetary system, stars, galaxies, and cosmology. Mastery of this course will give the student a good understanding of how our universe is structured and its progression. R

PHYS 1401: College Physics I (4:3-3)

A general technical course in the principles and applications of classical mechanics, heat, wave motion, and sound. Designed for pre-medical students, majors in pharmacy and architecture, and all other students who need a technical physics course with laboratory but do not intend to take additional courses in physics beyond PHYS 1402. Laboratory exercises emphasize measurements, concepts, and the experimental basis of physics. Students are encouraged to study applications in their major field of study. Prerequisite: Credit or registration for MATH 1314 and 1316 or their equivalent. \$24 lab fee. R, W, M

PHYS 1402: College Physics II (4:3-3)

A general technical course in the principles and applications of classical electricity and magnetism, light and optics, and modern physics. Designed for pre-medical students, majors in pharmacy and architecture and all other students who need a technical physics course with laboratory but do not intend to take additional courses in physics. Laboratory exercises emphasize measurements, concepts, and the experimental basis of physics. Students are encouraged to study applications in their major field of study. Prerequisite: PHYS 1401. \$24 lab fee. R, W, M

PHYS 1405: Elementary Physics I (4:3-3)

This course is designed for liberal arts majors and elementary education majors who need a one semester science laboratory course and for others who desire a low mathematical overview of physics. The student will be introduced on a concept level to the principles of mechanics, properties of matter, heat, sound, electricity and magnetism, light, atomic and nuclear physics, relativity, and astrophysics. \$24 lab fee. R, W

PHYS 2425: University Physics I (4:3-3)

A comprehensive consideration of the fundamental concepts and principles of classical mechanics, heat, and wave motion. Designed for pre-engineering, physical science, and mathematics majors. Lectures are illustrated with problems and demonstrations. Outside assignments include problem solutions, written reports on laboratory experiments, and other exercises. Prerequisite: MATH 2413. \$24 lab fee. R, W, M

PHYS 2426: University Physics II (4:3-3)

A comprehensive consideration of the fundamental concepts and principles of classical electricity, magnetism, and light and an introduction to modern physics. Designed for pre-engineering, physical science, and mathematics majors. Lectures are illustrated with problems and demonstrations. Outside assignments include problem solutions, written reports on laboratory experiments, and other exercises. Prerequisite: PHYS 2425 and MATH 2414. \$24 lab fee. R, W, M

PSYCHOLOGY

PSYC 2301: General Psychology (3:3-0)

A survey of principles, theories and concepts governing human behavior. Designed to introduce the student to the broad field of psychology. Includes principles of learning, motivation, perception, emotion, personality theory, and adjustment. R

PSYC 2302: Applied Psychology (3:3-0)

A competency based course that teaches techniques of managing behavior and the prevention of problem behaviors in everyday situations. Subject matter and programming skills include using learning principles such as stimulus control, shaping, relaxation training, reinforcement scheduling, and token economies. Examines contrasting therapeutic approaches and the ethics of behavior control. Prerequisites: PSYC 2301. R

PSYC 2308: Child Psychology (3:3-0)

The study of the relationship of the physical, emotional, social, and mental factors in the growth and development of children. Prerequisite: PSYC 2301 or consent of instructor. R

PSYC 2314: Lifespan Growth and Development (3:3-0)

A study of the physical, mental, emotional, moral, and social development of the individual from conception to death. Prerequisite: PSYC 2301 or consent of instructor. R

PSYC 2315: Psychology of Adjustment (3:3-0)

A study of the adjustment problems of normal people. Application of techniques of control of stress and anxiety arising from personal conflicts in home, school, and society. R

PSYC 2319: Social Psychology (3:3-0)

A study of social interaction with emphasis on the principles and theories of dealing with others. Encompasses real-life problems such as prejudice, discrimination, attitudes, social perception, impression formation and knowing ourselves. Prerequisite: PSYC 2301 or consent of instructor. R

READING

READ 0301: Introduction to College Reading Techniques (3:3-0)

This course provides instruction in basic college reading, study, and literal comprehension skills. Special emphasis is placed on vocabulary building, main ideas and supporting details in short reading passages, text book chapter reading, transitions and patterns of organization, and critical reading techniques. Computer laboratory exercises will supplement reading assignments. Students must make a grade of "A" or "B" to attempt the next course.

READ 0302: College Reading Techniques (3:3-0)

This course applies skills gained in READ 0301, Introduction to College Reading Techniques, to advanced reading and study activities. The course provides instruction in comprehension, vocabulary, listening, general study skills, perceptual accuracy, visual efficiency, and reading rate. Modified individualized instruction with accents of personalization is based on a diagnosis of reading levels and needs. Each student is encouraged to improve overall reading effectiveness. Students must make a grade of "A" or "B" to complete the Basic Reading program.

SOCIAL WORK

SOCW 2361: Introduction to Social Work (3:3-0)

Explores the philosophy and practice of social work in the United States, survey of the fields and techniques of social work. Introduces the purpose and function of professional organizations, current issues confronting the social work profession, and knowledge of populations targeted for social services. R, W

SOCW 2362: Social Welfare as a Social Institution (3:3-0)

An introduction to the study of modern social work, underlying philosophy and ethics of social work, and the major divisions and types of social work together with their methods and objectives. Explores the current social welfare system and relevant social legislation.

SOCIOLOGY

SOCI 1301: Introduction to Sociology (3:3-0)

It is the aim of this course to give the students an understanding of the culture and the institutions with which they live and to familiarize them with the social processes of society. R, W

SOCI 1306: Social Problems (3:3-0)

Survey and analysis of current social problems. R, W

SOCI 2301: Marriage and the Family (3:3-0)

A sociological analysis of marriage and family relationships based on concepts introduced in SOCI 1301. Areas explored are courtship practices, marriage and family patterns and the family in transition. Prerequisite: SOCI 1301 or approval of instructor. R, W

SOCI 2320: Minority Studies II (3:3-0)

Explores the effects of alcoholism and drug addictions and the unique characteristics and needs of special populations including youth and elderly, male and female, as well as whites, blacks, Latinos, Native Americans and others. Personal and cultural values will be examined as well as ethical and legal requirements for treatment of addictions. Prerequisite: SOCI 2331: Drugs and Society. R, W

SOCI 2336: Criminology (3:3-0)

Social dimensions of deviant and criminal behavior; scope of crime; theories of crime and other socially deviant behavior; the role of the police and court system; group and community oriented programs (i.e. rape crisis, battered spouses' centers, and child abuse); study of programs of prevention, control and treatment. R, W

SOCI 2340: Drug Use and Abuse (3:3-0)

An in-depth study of the use and abuse of drugs in contemporary society. Emphasis upon the classification of drugs and the physiological, pharmacological, and toxicological effects of drug abuse. Presents an overview of detoxification programs and procedures for various drugs. R, W

SOCI 2389: Academic Cooperative in Sociology (3:3-4)

Integrates on-campus study with practical experiences in a social science context. In conjunction with class seminars and consultation with the course instructor, each student sets specific goals and objectives in the study of human social behavior and/or social institutions. Prerequisite: SOCI 1301. R, W

SPANISH

SPAN 1300: Beginning Spanish Conversation I (3:3-0)

This class offers the student opportunities to practice basic conversational skills on topics important to social and career situations through basic practice in comprehension and production of the spoken language. Most of the situations presented in this class can be handled using the present tense or conversational future. This is a good course for students who have been out of a language classroom for a few years, or for those who want to sharpen their listening and speaking skills. Prerequisite: two years high school, or equivalent.

SPAN 1310: Beginning Spanish Conversation II (3:3-0)

This class offers the student opportunities to practice conversational skills learned in 1300 and adds situations which necessitate the use of the past tenses through basic practice in comprehension and production of the spoken language. Prerequisite: SPAN 1300 or equivalent.

SPAN 1411: Beginning Spanish I (4:3-2)

This course teaches fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structure, and culture. The present tense verb forms and the conversational future will be practiced throughout the course. The past preterite tense is introduced at the end of the course. This is a course for true beginners and for those who have had only minimal exposure to the language.

SPAN 1412: Beginning Spanish II (4:3-2)

This course continues with the presentation of the fundamental skills in listening comprehension, speaking, reading, and writing learned in 1411 or other basic classes. It guides the student through an increasing use of the past tenses in the semester. This course teaches the structural patterns necessary to convey messages about the past and how to relate them to the present and the future. Much of the reading material will be from Spanish language news sources on the Internet. The student will acquire cultural knowledge through the use of current, real world standard Spanish usage. Prerequisite: SPAN 1411 or equivalent.

SPAN 2306: Intermediate Spanish Conversation (3:3-0)

This class presents opportunities for conversation at the intermediate level through basic practice in comprehension and production of the spoken language. Prerequisite: SPAN 1310 or equivalent.

SPAN 2311: Intermediate Spanish I (3:3-0)

This course emphasized conversation, vocabulary acquisition, reading composition, and culture through review and application of skills in listening comprehension, speaking, reading, and writing. This course provides a study of structural patterns in the Spanish language with emphasis on the contrastive patterns between English and Spanish. The cultural units and readings and listening materials will vary each semester. Prerequisite: SPAN 1412 or equivalent.

SPAN 2312: Intermediate Spanish II (3:3-0)1

This course emphasizes conversation, vocabulary acquisition, reading composition, and culture through review and application of skills in listening comprehension, speaking, reading, and writing. This course provides a study of structural patterns in the Spanish language with emphasis on the contrastive patterns between English and Spanish. The cultural units and readings and listening materials will vary each semester. Prerequisite: SPAN 2311 or equivalent.

SPAN 2313: Spanish for Native Speakers I (3:3-0)

This class emphasizes vocabulary acquisition to help students build the modern vocabulary necessary for participating in the global Spanish community through basic practice in the production of the spoken language. This class will also help native speakers develop the listening skills necessary for determining the need for written accent marks on words.

SPAN 2315: Spanish for Native Speakers II (3:3-0)

This class is a continuation of Spanish 2313 through basic practice in the production of the spoken language. Students will have an opportunity to hear and interact with people from various areas of the Spanish speaking world through the use of the Internet and live interviews. Prerequisite: SPAN 2313 or equivalent.

SPAN 2316: Career Spanish I (3:3-0)

This class presents vocabulary and practice situations that will be encountered in the workplace through basic practice in the production of the spoken language. This course can be offered to a group of students with similar career goals. Prerequisite: SPAN 1412 or SPAN 2313 or equivalent.

SPAN 2317: Career Spanish II (3:3-0)

This is a continuation of SPAN 2316 through basic practice in the production of the spoken language. The focus of the course is to prepare the student to be able to handle conversations with people from around the Spanish speaking world. Prerequisite: SPAN 2316

SPAN 1100: Beginning Spanish Conversation I (1:1-0)

This course is designed to teach people how to be able to get the information necessary for filling out common business forms. The course deals with the differences that prove problematic for English speakers such as correctly identifying the main surname. Prerequisite: one year of high school Spanish or equivalent.

SPAN 1110: Beginning Spanish Conversation II (1:1-0)

This course is designed to give the student the basic conversational and reading skills needed for traveling in a Spanish-speaking country. Prerequisite: SPAN 1411 or equivalent or experience with the language.

SPEECH

SPCH 1311: Introduction to Speech Communication (3:3-0)

An introduction to the theories and practice of oral communication. Emphasis is on the importance of both listening and speaking to help the student develop skills necessary for communication in interpersonal, small group and public speaking situations. R,W

SPCH 1315: Public Speaking (3:3-0)

Research, composition, organization, and delivery of speeches for various purposes and occasions with emphasis on listener analysis and informative and persuasive techniques. (Formerly SPEECH 1663) R,W

SPCH 1318: Interpersonal Communication (3:3-0)

Theories and exercises in verbal and nonverbal communication with focus on interpersonal relationships. R, W

SPCH 1321: Business and Professional Communication (3:3-0)

Theories and practice of speech communication as applied to business and professional situations. Emphasis is on the importance of both listening and speaking to help students develop skills necessary for communication in interpersonal, small group, and public business interactions. R,W

SPCH 1342: Voice and Diction (3:3-0)

Physiology and mechanics of effective voice production with practice in articulation, pronunciation, and enunciation. Introduction to the International Phonetic Alphabet. This is the same course as DRAM 2336 but can be taken for Speech credit. Credit will not be granted for both SPCH 1342 and DRAM 2336. R, W

SPCH 2333: Discussion and Small Group Communication (3:3-0)

Discussion and small group theories and techniques as they relate to group process and interaction. R, W

STUDY SKILLS

STSK 0305: Master Student for TSI (Texas Success Initiative) (3:3-0)

This course is aimed at improving the student's basic skills. It includes student evaluation of study habits; application of effective time management practices; and practice in such essential mechanics as note taking, reading, review, and preparation for examinations. Students also gain skills designed to improve the consultations they have with their college instructors.

STSK 0306: Master Student for College Success (3:3-0)

This course is aimed at improving the student's basic skills. It includes student evaluation of study habits; application of effective time management practices; and practice in such essential mechanics as note taking, reading, review, and preparation for examinations. Students also gain skills designed to improve the consultations they have with their college instructors.

GRADUATION REQUIREMENTS

Temple College awards degrees and certificates during the Spring, Summer, and Fall semesters. Although there are three different semesters in which a student may graduate, Temple College only holds one formal graduation ceremony a year. This ceremony is held at the end of the Spring semester. This ceremony is for students who will meet degree requirements during that semester as well as those students who have graduated during the preceding Summer or Fall semesters. In order to be eligible to participate in the ceremony, students must complete the Application for Graduation and indicate their desire to participate in the ceremony.

Students will be considered as a candidate for graduation only upon completion of the Application for Graduation. Students must submit the application for graduation by the following deadline dates: Spring – February 1, Summer – June 1, and Fall – October 1. If the first of the month falls on a holiday or a weekend, the deadline date will be extended to the next business day. Students who do not submit their paperwork by these dates will be charged a \$30.00 late fee. The last day to submit a late application for graduation for a term is three weeks before the last regular class day of the term. Students who do not apply by the deadline dates will not be considered for graduation for that term and will need to submit an application for the next graduation date.

REQUIREMENTS FOR ASSOCIATE DEGREES

1. Completion of all admission requirements. All required documents must be on file.
2. Completion of all degree requirements of the catalog in effect at the time students originally entered TC or any subsequent catalogs in effect as long as the students have been continuously enrolled and provided they meet the requirements within four years from the date they first enrolled under that catalog. Students who are not continuously enrolled or who do not finish within the four-year time limit must meet degree requirements of the current catalog year.
3. Completion of last 16 semester hours of work at Temple College or a total of 32 semester hours of work at Temple College applicable toward the degree.
4. Completion of all coursework required for the degree with a minimum 2.0 cumulative grade-point average.
5. Completion of all financial obligations.
6. Completion of the core curriculum for each degree as listed in this catalog.
7. Completion of all Texas Success Initiative (TSI) requirements. Students will not be eligible for graduation until all TSI requirements have been met.
8. Completion of the Application for Graduation by deadline date.

REQUIREMENTS FOR CERTIFICATES

1. Completion of all admission requirements. All required documents must be on file.
2. Completion of all certificate requirements of the catalog in effect at the time students originally entered TC or any subsequent catalog in effect as long as students have been continuously enrolled and provided they meet the requirements with four years from the date they first enrolled under that catalog. Students who are not continuously enrolled or who do not finish within the four-year time-limit must meet degree requirements of the current catalog year.
3. Completion of all course work required for the certificate with a minimum 2.0 cumulative grade-point average.
4. Completion of all financial obligations.
5. Completion of all Texas Success Initiative (TSI) requirements if students are graduating with a level-two certificate.
6. Completion of the Application for Graduation by deadline date.
7. Completion of the requirements check by the Technical Department Chairman. It is the student's responsibility to contact the department for the requirements check.

ASSOCIATE OF APPLIED SCIENCE DEGREE

In order to graduate from Temple College and receive the Associate of Applied Science degree the student must complete 15 hours of general core courses. See your Program of Study for specific requirements.

COURSES		Sem. Cr. Hr.
ENGLISH	1301 and 2311	6
	(Or 1302 and SPEECH 1311, 1315, 1318, OR 1321)	
HUMANITIES/ FINE ARTS	Art, Drama/Theater, History 2311 or 2312, Humanities, Literature, Music, and Philosophy (excluding Logic).....	3
MATH/NATURAL SCIENCE	Academic Math or Science (of at least 3 hours)....	3
SOCIAL/BEHAVIORAL SCIENCE	Anthropology, Economics, Geography, Government, Psychology, or Sociology	3
COURSES	*Course work from the student's specific major ...	49
	Total hours	64

Note: Students must complete at least 64 semester hours of course credit, exclusive of developmental level courses, with a "C" or better average on all hours attempted. Some technical programs have additional specific grade requirements for their majors. These are listed in this catalog under specific programs in which the Associate of Applied Science degree is conferred.

*Included in the 64 hours of course work should be all of the prescribed requirements for the specific technical degree program for which the student is enrolled. These requirements are listed in this catalog under specific programs in which an Associate of Applied Science degree is conferred.

To receive an AAS degree, the student must have completed the last 16 semester hours of the work toward graduation at Temple College or have earned a total of 32 semester hours of TC work applicable toward the graduation requirements.

For any variation from these prescribed requirements to be counted toward graduation, a written statement waiving that requirement and signed by the Vice President Of Educational Services must be on file in the student's record folder.

TECH PREP

Tech Prep allows students to earn college credit while in high school. The Tech Prep multi-year planned sequence of study for a technical field begins in high school and extends through one or two years of a Temple College technical occupational program following the high school instruction, and results in a certificate or associate degree. Temple College's Tech Prep program also provides students with the opportunity to transfer to a university.

Tech Prep requires a formal and program-specific articulation agreement between the high school and Temple College. The articulation agreement is a commitment for school districts and Temple College to jointly develop and implement Tech Prep curricula and instruction. Tech Prep prepares students for direct entry into the workplace as technically skilled employees or, with appropriate arrangements, for further education leading to baccalaureate and advanced degrees.

Students are encouraged to contact their high school career and technology teacher or counselor for Tech Prep programs in their high school that are approved by the Texas Education Agency (TEA) and the Texas Higher Education Coordinating Board (THECB).

The steps a student should follow to participate in Tech Prep are:

1. Pick a career path from one of the occupational clusters while in high school; Health Science Professions, Business/Office Professions, Industry/Technology, Personal/Protective Services.
2. Register while in high school to take Tech Prep course work during the junior or senior year;

After high school graduation,

3. Enroll in the Tech Prep program at Temple College that offers the appropriate career pathway and articulate high school Tech Prep course work into college course work.
4. File a degree plan and complete the college course work for the certificate or associate degree program.

Temple College has articulated in conjunction with independent school districts the following career and technical programs:

Computer-Aided Design

Computer Information Systems: Computer Technology – Entertainment and Business Software Development

Computer Information Systems: Computer Technology - Computer Applications Technology

Computer Information Systems: Computer Technology - Network Administration Option

Computer Information Systems: Computer Technology - Repair Technician Option

Computer Information Systems: Computer Technology - Web Technology

Criminal Justice

General Business

Geographic Information Systems

Management

Medical Laboratory Technician

For more information about Tech Prep career preparation programs at Temple College, contact your high school career and technology teacher or counselor or Temple College's Tech Prep office.

Guide to Technical Course Abbreviations

Business/Business Management

ACNT
BMGT
BUSG
HRPO
MRKG
POFT

Child Development: Technical

CDEC

Computer Aided Design

ARCE
DFTG

Geographic Information Systems

AGCR
AGMG
ARTC
CRTG
SRVY

Computer Information System: Technical

ARTC
CPMT
IMED
ITNW
ITSC
ITSE
ITSW
ITSY

Criminal Justice: Technical

CJCR
CJLE
CJSA

Dental Hygiene

DHYG

Education: Technical

EDTC

Emergency Medical Services Professionals

EMSP

Medical Lab Technician

MLAB

Nursing

RNSG
VNSG

Respiratory Care

RSPT
PSGT

Surgical Technology

SRGT

**Technical
Programs Of Study
and
Course Descriptions**

Many courses have competency Prerequisites that are identified as R, reading intensive; W, writing intensive; and M, math intensive.

**Business/General
LEVEL - I CERTIFICATE (TSI WAIVED)
Administrative Assistant**

First Semester

BCIS 1405	Business Computer Applications.....	4
HRPO 1311	Human Relations	3
POFT 1301	Business English	3
POFT 1309	Administrative Office Procedures I.....	3
POFT 1429	Beginning Keyboarding	4
	Total Hours	17

Second Semester

BMGT 1325	Office Management	3
POFT 1313	Professional Development for Office Personnel .	3
POFT 2312	Business Correspondence and Communication .	3
POFT 2401	Intermediate Keyboarding	4
Elective	Technical	3
Elective	Technical	3
	Total Hours	19
	Grand Total.....	36

SUGGESTED TECHNICAL ELECTIVES

ACNT 1303	Introduction to Accounting I
ACNT 1311	Introduction to Computerized Accounting II
BMGT 1301	Supervision
BMGT 1303	Principles of Management
BMGT 1341	Business Ethics
BMGT 2309	Leadership
BUSG 1301	Introduction to Business
BUSG 2309	Small Business Management
HRPO 1311	Human Relations
HRPO 2301	Human Resource Management
IMED 2309	Internet Commerce
ITSW 1307	Introduction to Database
ITSW 1310	Introduction to Presentation Graphics Software
ITSW 2334	Advanced Spreadsheets
ITSW 2337	Advanced Database
MRKG 1302	Principles of Retailing
MKTG 1311	Public Relations
MRKG 1313	Principles of Marketing
MRKG 2349	Advertising and Sales Promotion
POFT 1380	Cooperative Education

**LEVEL - I CERTIFICATE (TSI WAIVED)
Office Management**

First Semester

BMGT 1382	Cooperative Education: Management I.....	3
HRPO 1311	Human Relations	3
HRPO 2301	Human Resource Management.....	3
BMGT 1341	Business Ethics.....	3
Elective	Technical	3
	Total Hours	15

Second Semester

BMGT 1301	Supervision	3
BMGT 1303	Principles of Management	3
BMGT 1325	Office Management	3
BMGT 1383	Cooperative Education: Management II.....	3
Elective	Technical	3
	Total Hours	15

Third Semester

BMGT 2382	Cooperative Education: Management III	3
	Grand Total.....	33

SUGGESTED TECHNICAL ELECTIVES

ACNT 1303	Introduction to Accounting I
ACNT 1311	Introduction to Computerized Accounting II
BMGT 2309	Leadership
BUSG 1301	Introduction to Business
BUSG 2309	Small Business Management
HRPO 2307	Organizational Behavior
MRKG 1302	Principles of Retailing
MRKG 1311	Principles of Marketing
MRKG 1313	Public Relations
MRKG 2349	Advertising and Sales Promotion
ITSC 1309	Integrated Software Applications I
ITSW 1307	Introduction to Database
ITSW 1310	Introduction to Presentation Graphics Software
ITSW 2334	Advanced Spreadsheets
ITSW 2337	Advanced Database
POFT 1301	Business English
POFT 1309	Administrative Office Procedures
POFT 1429	Beginning Keyboarding
POFT 2312	Business Correspondence and Communication
POFT 2401	Intermediate Keyboarding

**ASSOCIATE OF APPLIED SCIENCE DEGREE
General Business**

FIRST YEAR

First Semester

ACNT 1303	Introduction to Accounting	3
ENGL 1301	Composition I.....	3
HRPO 1311	Human Relations	3
HRPO 2301	Human Resource Management.....	3
POFT 1429	Beginning Keyboarding	4
Elective	Technical	3
	Total Hours	19

Second Semester

ACNT 1311	Introduction to Computerized Accounting	3
BMGT 1325	Office Management	3
BUSI 1301	Business Principles.....	3
ENGL 2311	Technical & Business Writing.....	3
POFT 2401	Intermediate Keyboarding.....	4
	Total Hours	16

SECOND YEAR

Third Semester

ACCT 2401	Principles of Accounting I - Financial.....	4
BCIS 1405	Business Computer Applications.....	4
BUSI 1307	Personal Finance.....	3
BUSI 2301	Business Law	3
BMGT 1341	Business Ethics.....	3
	Total Hours	17

Fourth Semester

ACCT 2402	Principles of Accounting II - Managerial.....	4
BUSI 2302	Legal Environment of Business	3
MATH 1332	Contemporary Mathematics I or Natural Science	3
Elective	Social/Behavioral Science.....	3
Elective	Humanities/Fine Arts	3
	Total	16
	Grand Total.....	68

SUGGESTED TECHNICAL ELECTIVES

BMGT 1301	Supervision
BMGT 1303	Principles of Management
BMGT 2309	Leadership
BUSG 1301	Introduction to Business
BUSG 2309	Small Business Management
HRPO 2307	Organizational Behavior
ITSW 1307	Introduction to Database
ITSW 1310	Introduction to Presentation Graphics Software
ITSW 2334	Advanced Spreadsheets
ITSW 2337	Advanced Database
MRKG 1302	Principles of Retailing
MRKG 1311	Principles of Marketing
MRKG 1313	Public Relations
MRKG 2349	Advertising and Sales Promotion
POFT 1301	Business English
POFT 1309	Administrative Office Procedures
POFT 2312	Business Correspondence and Communication

SUGGESTED SOCIAL/BEHAVIORAL SCIENCE ELECTIVES

ANTH	Anthropology
ECON	Economics
GEOG	Geography
PSYC	Psychology
SOCI	Sociology

SUGGESTED HUMANITIES/FINE ARTS ELECTIVES

ARTS	1301	Art Appreciation
ARTS	1303	Art History I
HUMA	1301	Introduction to Humanities I
HUMA	1302	Introduction to Humanities II
MUSI	1306	Music Appreciation
MUSI	1310	American Music
PHIL	2306	Introduction to Ethics

BUSINESS/GENERAL

ACNT 1303: Introduction to Accounting I (3:3-0)

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll.

ACNT 1311: Introduction to Computerized Accounting (3:2-2)

Introduction to utilizing the computer in maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package. \$24 lab fee.

POFT 1301: Business English (3:2-2)

Introduction to practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. \$24 lab fee.

POFT 1309: Administrative Office Procedures I (3:2-2)

Study of current office procedures, duties, and responsibilities applicable to an office environment. \$24 lab fee.

POFT 1313: Professional Development for Office Personnel (3:2-2)

Preparation for the work force including ethics, interpersonal relations, professional attire, and career advancement. \$24 lab fee.

POFT 1380: Cooperative Education – Administrative Assistant and Secretarial Science, General (3:1-20)

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

POFT 1429: Beginning Keyboarding (4:3-2)

Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. \$24 lab fee.

POFT 2312: Business Correspondence and Communication (3:2-2)

Development of writing and presentation skills to produce effective business communications. \$24 lab fee.

POFT 2401: Intermediate Keyboarding (4:3-2)

A continuation of keyboarding skills in document formatting, emphasizing speed, and accuracy. Emphasis on proofreading, editing, and following instructions, and keying documents from various copies. \$24 lab fee.

**BUSINESS/MANAGEMENT
LEVEL I - CERTIFICATE (TSI WAIVED)
Management**

First Semester

BMGT 1382	Cooperative Education I.....	3
BUSG 1301	Introduction to Business	3
HRPO 2307	Organization Behavior	3
MRKG 1311	Principles of Marketing.....	3
Elective	Business/Management.....	3
	Total Hours	15

Second Semester

BMGT 1301	Supervision.....	3
BMGT 1303	Principles of Management	3
BMGT 1383	Cooperative Education II.....	3
BMGT 2309	Leadership.....	3
	Total Hours	12

Third Semester

BMGT 2382	Cooperative Education III.....	3
	GRAND TOTAL	30

SUGGESTED ELECTIVES

ACNT 1303	Introduction to Accounting I
ACNT 1311	Introduction to Computerized Accounting II
BMGT 1305	Communications in Management
BMGT 1325	Office Management
BMGT 1341	Business Ethics
BMGT 2303	Problem Solving and Decision Making
BMGT 2331	Principles of Quality Management
BMGT 2341	Strategic Management
BUSG 2309	Small Business Management
HRPO 1311	Human Relations
HPRO 2301	Human Resource Management
MRKG 1302	Principles of Retailing
MRKG 1313	Public Relations
MRKG 2349	Advertising and Sales Promotion

**LEVEL I - CERTIFICATE (TSI WAIVED)
Small Business Management**

First Semester

BMGT 1382	Cooperative Education I.....	3
BMGT 2341	Strategic Management.....	3
HRPO 2301	Human Resource Management.....	3
MRKG 1311	Principles of Marketing.....	3
MRKG 1313	Public Relations	3
	Total Hours	15

Second Semester

BMGT 1383	Cooperative Education II.....	3
MRKG 2349	Advertising and Sales Promotion	3
BUSG 2309	Small Business Management	3
BMGT 1341	Business Ethics.....	3
	Total Hours	12

Third Semester

BMGT 2382	Cooperative Education III.....	3
	GRAND TOTAL	30

SUGGESTED ELECTIVES

ACNT 1303	Introduction to Accounting I
ACNT 1311	Introduction to Computerized Accounting II
BMGT 1301	Supervision

BMGT 1303	Principles of Management
BMGT 1305	Communications in Management
BMGT 1325	Office Management
BMGT 2303	Problem Solving and Decision Making
BMGT 2309	Leadership
BMGT 2331	Total Quality Management
BUSG 1301	Introduction to Business
HRPO 1311	Human Relations
HRPO 2307	Human Resource Management
MRKG 1302	Principles of Retailing

**ASSOCIATE OF APPLIED SCIENCE DEGREE
Management**

The curriculum in management is designed to develop the fundamental skills, knowledge, attitude, and experience which combines academic training with practical on-the-job training compatible with the student's career objective. Students will be allowed to take only one Practicum each semester.

FIRST YEAR

First Semester

BMGT 1382	Cooperative Education I.....	3
BUSG 1301	Introduction to Business	3
ENGL 1301	Composition I.....	3
MRKG 1311	Principles of Marketing.....	3
POFT 1429	Beginning Keyboarding	4
	Total Hours	16

Second Semester

BMGT 1301	Supervision	3
BMGT 1303	Principles of Management	3
BMGT 1383	Cooperative Education II.....	3
ENGL 2311	Technical & Business Writing.....	3
Elective	Business/Management.....	3
	Total Hours	15

SECOND YEAR

Third Semester

BCIS 1405	Business Computer Applications.....	4
BMGT 2382	Cooperative Education III.....	3
HRPO 2301	Human Resource Management.....	3
HRPO 2307	Organizational Behavior.....	3
Elective	Free Elective	3
	Total Hours	16

Fourth Semester

BMGT 1341	Business Ethics.....	3
BMGT 2309	Leadership	3
MATH 1332	Contemporary Mathematics I or Natural Science	3
Elective	Social/Behavioral Science.....	3
Elective	Humanities/Fine Arts	3
Elective	Free Elective	3
	Total Hours	18
	GRAND TOTAL	65

SUGGESTED MANAGEMENT ELECTIVES

ACNT 1303	Introduction to Accounting I
ACNT 1311	Introduction to Computerized Accounting II
BMGT 1305	Communications in Management
BMGT 1325	Office Management
BMGT 2303	Problem Solving and Decision Making
BMGT 2331	Total Quality Management
BMGT 2341	Strategic Management
BUSG 2309	Small Business Management
HRPO 1311	Human Relations

MRKG 1302	Principles of Retailing
MRKG 1313	Public Relations
MRKG 2349	Advertising and Sales Promotion

SUGGESTED SOCIAL/BEHAVIORAL SCIENCE ELECTIVES

ANTH	Anthropology
ECON	Economics
GEOG	Geography
PSYC	Psychology
SOCI	Sociology

BUSINESS/MANAGEMENT

BMGT 1301: Supervision (3:3-0)

A study of the role of the supervisor. Managerial functions as applied to leadership, counseling, motivation, and human skills are examined.

BMGT 1303: Principles of Management (3:3-0)

Concepts, terminology, principles, theories, and issues in the field of management.

BMGT 1305: Communications in Management (3:3-0)

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

BMGT 1325: Office Management (3:3-0)

Systems, procedures, and practices related to organizing and planning office work, controlling employees' performance, and exercising leadership skills.

BMGT 1341: Business Ethics (3:3-0)

Discussion of ethical issues, the development of a moral frame of reference and the need for an awareness of social justice in management practices and business activities. Review of ethical responsibilities and relationships between organizational departments, divisions, executive management, and the public.

BMGT 1382: Cooperative Education I-Business Administration and Management, General (3:1-20)

Career-related activities encountered in the student's area of specialization are offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

BMGT 1383: Cooperative Education II-Business Administration and Management, General (3:1-20)

Career-related activities encountered in the student's area of specialization are offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

BMGT 2303: Problem Solving and Decision Making (3:3-0)

Decision making and problem solving processes in organizations, utilizing logical and creative problem solving techniques. Application of theory is provided by experiential activities such as small group discussions, case studies and the use of other managerial decision aids.

BMGT 2309: Leadership (3:3-0)

Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify..

BMGT 2331: Principles of Quality Management (3:3-0)

Quality of productivity in organizations. Includes planning for quality throughout the organization, analysis of costs of quality, and employee empowerment.

BMGT 2341: Strategic Management (3:3-0)

A study of the strategic management process, including analysis of how organizations develop and implement a strategy for achieving organizational objectives in a changing environment.

BMGT 2382: Cooperative Education III-Business Administration and Management, General (3:1-20)

Career-related activities encountered in the student's area of specialization are offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

GENERAL BUSINESS

BUSG 1301: Introduction to Business (3:3-0)

Fundamental business principles including structure, functions, resources, and operational processes.

BUSG 2309: Small Business Management (3:3-0)

Starting and operating a small business. Includes facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

HUMAN RESOURCES

HRPO 1311: Human Relations (3:3-0)

Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment.

HRPO 2301: Human Resources Management (3:3-0)

Behavioral and legal approaches to the management of human resources in organizations.

HRPO 2307: Organizational Behavior (3:3-0)

The analysis and application of organizational theory, group dynamics, motivation theory, leadership concepts, and the integration of interdisciplinary concepts from the behavioral sciences.

MARKETING

MRKG 1302: Principles of Retailing (3:3-0)

Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

MRKG 1311: Principles of Marketing (3:3-0)

Introduction to the marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.

MRKG 1313: Public Relations (3:3-0)

Exploration of the theories, techniques, and processes of public relations including means of influencing methods of building good will, analysis of media, obtaining publicity, and implementation of public relations programs.

MRKG 2349: Advertising and Sales Promotion (3:3-0)

Integrated marketing communications. Includes advertising principles and practices. Emphasizes multi-media of persuasive communication including buyer behavior, budgeting, and regulatory constraints.

CHILD DEVELOPMENT
Early Childhood Education
LEVEL - I CERTIFICATE (TSI WAIVED)
Child Development/Early Childhood Certificate

FIRST YEAR

First Semester

CDEC 1311	Introduction to Early Childhood Education* or CDEC 1317	3
CDEC 1354	Child Growth and Development*	3
CDEC 1356	Emergent Literacy for Early Childhood	3
CDEC 1358	Creative Arts for Early Childhood or CDEC 2324	3
CDEC 1421	The Infant and Toddler	4
	Total Hours	16

Second Semester

CDEC 1318	Nutrition, Health and Safety* or CDEC 2322 ...	3
CDEC 1413	Curriculum Resources for Early Childhood Programs	4
CDEC 1419	Child Guidance	4
CDEC 2307	Math and Science for Early Childhood	3
Elective	Child Development.....	3-4
	Total Hours	17-18
	GRAND TOTAL	33-34

*Equivalent TECA course may be substituted.

**THE CHILD DEVELOPMENT ASSOCIATE NATIONAL
 CREDENTIALING PROGRAM (CDA)**

Training is provided for individuals interested in the CDA Credential. The program focuses on the skills of care and education of the young child and is designed to provide performance based training, assessment, and credentialing of childcare staff, home visitors, and family child care providers. The CDA Program represents a national effort to credential qualified caregivers/teachers who work with children from birth through age five.

CDEC 1317	Child Development Associate Training I.....	3
CDEC 2322	Child Development Associate Training II.....	3
CDEC 2324	Child Development Associate Training III.....	3

A passing grade in CDA I, II, III does not guarantee the CDA credential will be awarded to the candidate. The council for Early Childhood Professional Recognition headquartered in Washington, D.C. awards the CDA Credential.

Students who have passed with a C or better, CDEC 1317, CDEC 2322, and CDEC 2324 have been awarded the CDA credential and wish to continue Child Development certificate or degree programs, may substitute the three associate training courses for the following three courses: CDEC1311 Introduction to Early Childhood Education; CDEC 1318 Nutrition, Health and Safety; and/or CDEC 1358 Creative Arts for Early Childhood.

LEVEL - I CERTIFICATE (TSI WAIVED)
Child Care and Development Administration Certificate

FIRST YEAR

First Semester

CDEC 1311	Introduction to Early Childhood Education*	3
CDEC 1354	Child Growth and Development*	3
CDEC 1359	Children with Special Needs	3
CDEC 1421	The Infant and Toddler	4
CDEC 2326	Administration of Programs for Children I.....	3
	Total Hours	16

Second Semester

CDEC 1318	Nutrition, Health and Safety*	3
CDEC 1396	Special Topics in Child Care and Support Services Management or CDEC 1394	3
CDEC 1413	Curriculum Resources for Early Childhood Programs	4
CDEC 1419	Child Guidance	4
CDEC 2328	Administration of Programs for Children II.....	3
BMGT 1301	Supervision	3
	Total Hours	20
	GRAND TOTAL	36

*Equivalent TECA course may be substituted.

ASSOCIATE OF APPLIED SCIENCE DEGREE
Child Development

*Students planning to continue at a senior college or university should take TECA courses.

First Semester

ENGL 1301	Composition I.....	3
CDEC 1311	Introduction to Early Childhood Education* or TECA 1311	3
CDEC 1354	Child Growth and Development* or TECA 1354	3
CDEC 1358	Creative Arts for Early Childhood.....	3
CDEC 1421	The Infant and Toddler	4
	Total Hours	16

Second Semester

ENGL 2311	Technical and Business Writing	3
CDEC 1303	Family and the Community* or TECA 1303	3
CDEC 1413	Curriculum Resources for Early Childhood Programs	4
CDEC 1419	Child Guidance	4
CDEC 2307	Math and Science for Early Childhood	3
Elective	Child Development Elective	3
	Total Hours	20

SECOND YEAR

First Semester

CDEC 1356	Emergent Literacy for Early Childhood	3
CDEC 1359	Children with Special Needs	3
CDEC 1394	Special Topics in Child Care Provider/Assistant .	3
CDEC 2326	Administration of Programs for Children I.....	3
Elective	Social/Behavioral Science.....	3
	Total Hours	15

Second Semester

MATH 1332	Contemporary Mathematics I.....	3
CDEC 1318	Nutrition, Health and Safety* or TECA 1318	3
CDEC 2364	Practicum – Child Development.....	3
CDEC 2441	The School-Age Child	4
Elective	Fine Arts or Humanities	3
	Total Hours	16
	GRAND TOTAL	67

PROGRAM ELECTIVES

CDEC 1317	Child Development Associate Training I
CDEC 1343	Independent Study in Child Development
CDEC 2322	Child Development Associate Training II
CDEC 2324	Child Development Associate Training III
CDEC 2328	Administration of Programs for Children II

CHILD DEVELOPMENT

CDEC1303: Family and the Community (3:3-1)

A study of the relationship between the child, family, community, and educators, including a study of parent education and involvement, family and community lifestyles, child abuse, and current family life issues.

CDEC 1311: Introduction to Early Childhood Education (3:3-1)

An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues. . \$24 lab fee.

CDEC 1317: Child Development Associate Training I (3:2-2)

Based on the requirements for the Child Development Associate National Credential (CDA). Topics on CDA overview, general observation skills, and child growth and development overview. The four functional areas of study are creative, cognitive, physical, and communication. \$24 lab fee.

CDEC 1318: Nutrition, Health and Safety (3:3-1)

A study of nutrition, health, and safety including community health, universal health precautions, and legal implications. Practical application of these principles in a variety of settings. \$24 lab fee.

CDEC 1323: Observation and Assessment (3:2-2)

A study of observation skills, assessment techniques and documentation of children's development. \$24 lab fee.

CDEC 1343: Independent Study in Child Development (3:2-2)

Topic of career focus identified by the student with program approval; research, presentation of findings, and practical applications are emphasized as they relate to the selected topic. Departmental approval required for this course. \$24 lab fee.

CDEC 1354: Child Growth and Development (3:3-0)

A study of principles of child growth and development from conception through adolescence. Focus on physical, cognitive, social, and emotional domains of development. Prerequisite: CDEC 1311 or TECA 1311. \$24 lab fee.

CDEC 1356: Emergent Literacy for Early Childhood (3:2-2)

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum. \$24 lab fee.

CDEC 1358: Creative Arts for Early Childhood (3:2-2)

An exploration of principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking. \$24 lab fee.

CDEC 1359: Children with Special Needs (3:3-0)

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues..

CDEC 1394: Special Topics in Child Care Provider/Assistant (3:2-4)

Study topics addressing recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Prerequisites: TECA 1311 or CDEC 1311, TECA 1354 or CDEC 1354, CDEC 1413, CDEC 1419, CDEC 1421, or concurrent enrollment or approval of department chair. \$24 lab fee.

CDEC 1413: Curriculum Resources for Early Childhood Programs: (4:3-2)

A study of the fundamentals of curriculum design and implementation in developmentally appropriate programs for children. \$24 lab fee.

CDEC 1419: Child Guidance (4:3-2)

An exploration of guidance strategies for promoting pro-social behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement and cultural influences. Practical application through direct participation with children. \$24 lab fee.

CDEC 1421: The Infant and Toddler (4:3-2)

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques. \$24 lab fee.

CDEC 2307: Math and Science for Early Childhood (3:2-2)

An exploration of principles, methods, and materials for teaching math and science concepts and process skills through discovery and play. Prerequisite: TECA 1311 or CDEC 1311, CDEC 1413, or departmental approval. \$24 lab fee.

CDEC 2315: Diverse Cultural/Multilingual Education (3:2-2)

An overview of multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children. \$24 lab fee.

CDEC 2322: Child Development Associate Training II (3:2-2)

A continuation of the study of the requirements for the Child Development Associate National Credential (CDA). The six functional areas of study include safe, healthy, learning environment, self, social, and guidance. Must have departmental approval prior to enrolling in this course. In order to pursue CDA credential, the student must be employed in a child care facility. \$24 lab fee.

CDEC 2324: Child Development Associate Training III (3:2-2)

Continuation of the requirements for the Child Development Associate National Credential (CDA). Three of the 13 functional areas of study include family, program management and professionalism. Must have departmental approval prior to enrolling in this course. In order to pursue CDA credential, the student must be employed in a child care facility. \$24 lab fee.

CDEC 2326: Administration of Programs for Children I (3:3-0)

A practical application of management procedures for early child care education programs, including a study of planning, operating, supervising, and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication. Must have departmental approval prior to enrolling in this course. In order to pursue CDA credential, the student must be employed in a child care facility. Prerequisite: TECA 1311 or CDEC 1311.

CDEC 2328: Administration of Programs for Children II (3:3-0)

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs. Must have departmental approval prior to enrolling in this course. In order to pursue CDA credential, the student must be employed in a child care facility. Prerequisite: TECA 1311 or CDEC 1311.

CDEC 2364: Practicum – Child Development (3:2-20)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: TECA 1303 or CDEC 1303, TECA 1311 or CDEC 1311, TECA 1354 or CDEC 1354, TECA 1318 or CDEC 1318, CDEC 1356, CDEC 1357, CDEC 1358, CDEC 1394, CDEC 1413, CDEC 1419, and CDEC 1421, or concurrent enrollment, or approval of department/chair/program advisor.

CDEC 2441: The School Age Child (4:3-2)

A study of appropriate programs for the school age child (5 to 13 years), including an overview of development, appropriate environments, materials, and activities and teaching/guidance techniques. Prerequisite: TECA 1311 or concurrent enrollment or approval by department chair/program advisor. \$24 lab fee.

**COMPUTER-AIDED DESIGN
LEVEL - I CERTIFICATE (TSI WAIVED)
CAD/Architectural, Civil, GIS**

The Computer-Aided Design Certificate is designed to train experienced and aspiring professionals in various engineering fields to use CAD® software to produce designs, drawings, illustrations, and presentations.

FIRST YEAR

First Semester

DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 2340	Solid Modeling/Design	3
ITSC 1309	Integrated Software Applications I	3
	Total	12

Second Semester

DFTG 1317	Architectural Drafting-Residential	3
DFTG 2328	Architectural Drafting-Commercial	3
DFTG 2330	Civil Drafting	3
CRTG 1311	Intro to Geographic Information Systems (GIS)	3
	Total	12
	GRAND TOTAL	24

**LEVEL - I CERTIFICATE (TSI WAIVED)
CAD/Mechanical Design**

The Computer-Aided Design Certificate is designed to train experienced and aspiring professionals in various engineering fields to use CAD® software to produce designs, drawings, illustrations, and presentations.

FIRST YEAR

First Semester

DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 2340	Solid Modeling/Design	3
ITSC 1309	Integrated Software Applications I	3
	Total	12

Second Semester

DFTG 2306	Machine Design	3
DFTG 2350	Geometric Dimensioning & Tolerancing	3
DFTG 2358	Advanced Machine Design	3
	Total	9
	GRAND TOTALI.....	21

**LEVEL - I CERTIFICATE (TSI WAIVED)
CAD/Electrical, Electronic, Instrumentation**

The Computer-Aided Design Certificate is designed to train experienced and aspiring professionals in various engineering fields to use CAD® software to produce designs, drawings, illustrations, and presentations.

FIRST YEAR

First Semester

DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 2340	Solid Modeling/Design	3
ITSC 1309	Integrated Software Applications I	3
	Total	1

Second Semester

DFTG 1358	Electrical/Electronics Drafting	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 2308	Instrumentation Drafting	3
	Total Hours	9
	GRAND TOTALI.....	21

**LEVEL I – CERTIFICATE (TSI WAVED)
Auto CAD**

The Computer-Aided Design Certificate is designed to train experienced and aspiring professionals in various engineering fields to use CAD® software to produce designs, drawings, illustrations, and presentations.

FIRST YEAR

First Semester

DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 2340	Solid Modeling/Design	3
ITSC 1309	Integrated Software Applications I	3
	Total	12

Second Semester

DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 2332	Advanced Computer-Aided Drafting	3
SRVY 2309	Computer Aided Mapping	3
	Total	9
	GRAND TOTAL	21

**ASSOCIATE OF APPLIED SCIENCE DEGREE
Computer-Aided Design**

The Computer-Aided Design (CAD) program is designed to give students entry-level design skills in five areas. These are manufacturing, electronics, architecture, civil engineering, and geographic information systems.

Drawings are produced using sketching techniques and/or CAD software. Applications software used in this program includes Pro/ENGINEER®, AutoCAD®, ArcView GIS®, and Microsoft Office.

FIRST YEAR

First Semester

DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 2340	Solid Modeling/Design	3
ENGL 1301	Composition I.....	3
MATH 1332	Contemporary Mathematics I or MATH 1314	3
	Total	15

Second Semester

CRTG 1311	Introduction to Geographic Information Systems (GIS) & GPS.....	3
DFTG 1358	Electrical/Electronics Drafting	3
DFTG 2306	Machine Design	3
DFTG 2330	Civil Drafting	3
ENGL 2311	Technical & Business Writing or ENGL 1302 AND SPCH 1311, 1315, 1318, or 1321	3-6
MATH 1333	Contemporary Mathematics II or MATH 1316	3
	Total	18

SECOND YEAR

Third Semester

DFTG 1317	Architectural Drafting- Residential	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
ARCE 2344	Statics and Strength of Materials	3
DFTG 2350	Geometric Dimensioning and Tolerancing	3
ITSC 1309	Integrated Software Applications I	3
Elective	Humanities/Fine Arts	3
	Total	18

Fourth Semester

DFTG 2308	Instrumentation Drafting	3
DFTG 2328	Architectural Drafting	3
DFTG 2358	Advanced Machine Design	3
DFTG 2380	Cooperative Education-Drafting or Technical Elective	3
PHIL 2306	Introduction to Ethics (Business Emphasis)	3
Elective	Social or Behavioral Science	3
	Total Hours	18
	GRAND TOTAL	69-72

PROGRAM ELECTIVES

AGCR 1303	Crop Science
AGCR 1319	Soil Science
AGMG 1311	Introduction to Agribusiness
ANTH 2346	Introduction to Anthropology
DFTG 2319	Intermediate Computer-Aided Drafting
DFTG 2332	Advanced Computer-Aided Drafting
ENVR 1101	Environmental Science Lab
ENVR 1301	Environmental Science
GEOG 1303	World Regional Geography
GEOG 2312	Economic Geography
GEOG 2389	Academic Cooperative
GEOL 1103	Physical Geology Laboratory
GEOL 1303	Physical Geology
HUMA 1302	Introduction to Humanities II
SRVY 1319	Introduction to Geographic Information Systems (GIS)
SRVY 2305	Geographic Information Systems Applications
SRVY 2309	Computer Aided Mapping

COMPUTER-AIDED DESIGN

ARCE 2344: Statics and Strength of Materials (3:2-4)

Internal effects of forces acting upon elastic bodies and the resulting changes in form and dimensions. Includes stress, shear, bending moments, and simple beam design. Lab fee \$24.

DFTG 1305: Technical Drafting (3:2-4)

Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, auxiliary views, and reproduction processes Lab fee \$24

DFTG 1309: Basic Computer-Aided Drafting (3:2-4)

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale. Lab fee \$24.

DFTG 1317: Architectural Drafting - Residential (3:2-4)

Architectural drafting procedures, practices, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods. Lab fee \$24.

DFTG 1358: Electrical/Electronics Drafting (3:2-4)

Electrical and electronic drawings stressing modern representation used for block diagrams, schematic diagrams, logic diagrams, wiring/assembly drawings, printed circuit board layouts, motor control diagrams, power distribution diagrams, and electrical one-line diagrams. Lab fee \$24.

DFTG 2306: Machine Design (3:2-4)

Theory and practice of design. Projects in problem solving, including press fit, bolted and welded joints, and transmission components. Lab fee \$24.

DFTG 2308: Instrumentation Drafting (3:2-4)

Principles of instrumentation as applicable to industrial applications; fundamentals of measurement and control devices; currently used ISA (Instrument Society of America) symbology; basic flow sheet layout and drafting practices. Lab fee \$24.

DFTG 2319 Intermediate Computer-Aided Drafting (3:2-4)

A continuation of practices and techniques used in basic computer-aided drafting emphasizing advanced dimensioning techniques, the development and use of prototype drawings, construction of pictorial drawings, construction of 3 dimensional drawings, interfacing 2d and 3d environments and extracting data. Lab fee \$24.

DFTG 2328: Architectural Drafting – Commercial (3:2-4)

Architectural drafting procedures, practices, and symbols including the preparation of detailed working drawings for a commercial building, with emphasis on commercial construction methods. Lab fee \$24.

DFTG 2330: Civil Drafting (3:2-4)

An in-depth study of drafting methods and principles used in civil engineering. Lab fee \$24.

DFTG 2332: Advanced Computer-Aided Drafting (3:2-4)

Advanced techniques, including the use of a customized system. Presentation of advanced drawing applications, such as three-dimensional solids modeling and linking graphic entities to external nongraphic data. Lab fee \$24.

DFTG 2340: Solid Modeling/Design (3:2-4)

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. Lab fee \$24.

DFTG 2350: Geometric Dimensioning & Tolerancing (3:2-4)

Geometric dimensioning and tolerancing, according to standards, application of various geometric dimensions and tolerances to production drawings. Emphasis on cumulative effects on part function, gauging equipment, and inspection procedures. Lab fee \$24.

DFTG 2358: Advanced Machine Design (3:2-4)

Design process skills for the production of complete design package, which includes jig and fixture design, extrusion dies, and injection mold design. This course is designed to serve as a capstone experience in mechanical design for the certificate and/or applied science degree. Lab fee \$24.

DFTG 2380: Cooperative Education-Drafting and Design Technology/Technician, General (3:1-20)

Career related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

COMPUTER INFORMATION SYSTEMS

This curriculum in Computer Information Systems is designed to develop the fundamental skills, knowledge, and experience which prepares the student for positions in the field of computer information systems and their use on the job. The program combines classroom lecture along with the hands-on experience to give the students practical knowledge of computer systems. Students may pursue a Certificate of Completion or the Associate Degree in several areas.

Note: For all degrees and certificates, students who lack keyboarding skills and/or did not pass the reading portion of the Texas Success Initiative should take POFT 1429 Beginning Keyboarding , prior to enrolling in the program.

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Entertainment and Business Software Development
FIRST YEAR**

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSE 1329	Programming Logic and Design***	3
ITSE 1331	Introduction to Visual BASIC Programming***.	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSE 1402	Computer Programming	4
	Total Hours	16-17

Second Semester

ITSE 2417	JAVA Programming***	4
ITSW 1307	Introduction to Database	3
ITSE 1350	System Analysis and Design***	3
ITSE 2449	Advanced Visual BASIC Programming***	4
ITSE 1407	Introduction to C++ Programming***	4
	Total Hours	18
	GRAND TOTAL	34-35

***Equivalent COSC or BCIS course may be substituted

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Computer Applications Technology**

FIRST YEAR

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405	3-4
ITSE 1329	Programming Logic and Design***	3
ITSC 1309	Integrated Software Applications I	3
ITSC 1313	Internet/Web Page Development.....	3
ITSE 1331	Introduction to Visual BASIC Programming***.	3
	Total Hours	15-16

Second Semester

ITSW 1301	Introduction to Word Processing.....	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSE 1350	System Analysis and Design***	3
ITSW 1310	Introduction to Presentation Graphics Software or ARTC 1313	3
ITSW 1307	Introduction to Database	3
ITSW 2334	Advanced Spreadsheets	3
	Total Hours	18
	GRAND TOTAL	33-34

***Equivalent COSC or BCIS course may be substituted

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Repair Technician Option**

FIRST YEAR

First Semester

ITSY	1342	Information Technology Security	3
ITSE	1329	Programming Logic and Design***	3
ITNW	1321	Introduction to Networking.....	3
CPMT	1311	Introduction to Computer Maintenance	3
ITSC	1305	Introduction to PC Operating Systems	3
		Total Hours	15

Second Semester

CPMT	1345	Computer System Maintenance.....	3
BMGT	1303	Principles of Management	3
CPMT	1404	Microcomputer Systems Software	4
		Total Hours	10
		GRAND TOTAL	25

***Equivalent COSC or BCIS course may be substituted

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Computer Application Specialist**

First Semester

ITSC	1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSC	1309	Integrated Software Applications I	3
ITSW	1310	Introduction to Presentation Graphics Software or ARTC 1313 Digital Publishing I.....	3
ITSW	1307	Introduction to Database	3
ITSW	1301	Introduction to Word Processing.....	3
ITSW	2334	Advanced Spreadsheets.....	3
		GRAND TOTAL	18-19

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Database Specialist**

First Semester

ITSC	1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSC	1309	Integrated Software Applications I	3
ITSE	1329	Programming Logic and Design***	3
ITSW	1307	Introduction to Database	3
		Total Hours	12-13

Second Semester

ITSW	1301	Introduction to Word Processing.....	3
ITSE	1331	Introduction to Visual BASIC Programming***.	3
ITSW	2337	Advanced Database (Oracle)	3
CRTG	1311	Introduction to Geographic Information Systems (GIS)	3
Elective		Technical	3
		Total Hours	15
		GRAND TOTAL	27-28

***Equivalent COSC or BCIS course may be substituted.

SUGGESTED TECHNICAL ELECTIVES

ITSW	1310	Introduction to Presentation Graphics Software
------	------	--

**LEVEL I - CERTIFICATE (TSI WAIVED)
COMPUTER TECHNOLOGY
Security Option**

(Pending Coordinating Board Approval)

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSE 1329	Programming Logic and Design***	3
ITSC 1305	Introduction to PC Operating System	3
ITNW 1321	Introduction to Networking.....	3
ITSY 1342	Information Technology Security	3
	Total Hours	15-16

Second Semester

ITSE 1331	Introduction to Visual BASIC Programming***.	3
ITSY 2400	Operating System Security	4
ITSY 2301	Firewalls and Network Security	3
ITSY 2441	Security Management Practices.....	4
	Total Hours	14
	GRAND TOTAL	29-30

***Equivalent COSC or BCIS course may be substituted.

**LEVEL II - CERTIFICATE (TSI REQUIRED)
COMPUTER TECHNOLOGY
Network Administration Option**

FIRST YEAR

First Semester

ITSC 1301	Introduction to Computers**	3
ITSE 1329	Programming Logic and Design***	3
ITSC 1309	Integrated Software Applications I	3
ITSE 1331	Introduction to Visual BASIC Programming***.	3
ITSC 1305	Introduction to PC Operating Systems	3
CPMT 1311	Introduction to Computer Maintenance	3
	Total Hours	18

Second Semester

ITNW 1321	Introduction to Networking.....	3
ITNW 2413	Networking Hardware	4
ITSE 1350	System Analysis and Design***	3
ITSY 1342	Information Technology Security	3
ITNW 2401	Administering Servers	4
ITNW 2405	Network Administration	4
ITNW 2415	Wide Area Networks	4
	Total Hours	25
	GRAND TOTAL	43

**BCIS 1405 Business Computer Applications course may be substituted

***Equivalent COSC or BCIS course may be substituted

**LEVEL II - CERTIFICATE (TSI REQUIRED)
COMPUTER TECHNOLOGY
Web Technology**

FIRST YEAR

First Semester

BCIS 1405	Business Computer Applications.....	4
ITSE 1329	Programming Logic and Design***	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSW 1310	Introduction to Presentation Graphics Software	3
ITSC 1313	Internet/Web Page Development.....	3
	Total Hours	16

Second Semester

ARTS 2348	Digital Art I or ARTS 2313 or ARTS 2314	3
ITSE 2313	Web Authoring.....	3
ITSW 1307	Introduction to Database	3
ITSE 1331	Introduction to Visual BASIC Programming***.	3
ARTC 1313	Digital Publishing I	3
	Total Hours	15

SECOND YEAR

Third Semester

ITSE 1350	System Analysis and Design	3
ITNW 2401	Administering Servers or ITNW 2405 Network Administration	4
ITSE 2417	JAVA Programming***	4
IMED 2309	Internet Commerce	3
	Total Hours	14
	GRAND TOTAL	45

***Equivalent COSC or BCIS course may be substituted

**ASSOCIATE OF APPLIED SCIENCE DEGREE
COMPUTER TECHNOLOGY**

Entertainment and Business Software Development

FIRST YEAR

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSE 1329	Programming Logic & Design***	3
ITSE 1331	Introduction to Visual BASIC Programming***.	3
ENGL 1301	Composition I.....	3
MATH 1332	Contemporary Mathematics I or Math 1314 College Algebra.....	3
	Total Hours	15-16

Second Semester

ITSE 1402	Computer Programming.....	4
ITSE 2417	JAVA Programming***	4
ITSC 1305	Introduction to PC Operating Systems	3
Elective	Social/Behavioral Science.....	3
ENGL 2311	Technical and Business Writing or ENGL 1302 Composition II**	3
	Total Hours	17

SECOND YEAR

Third Semester

ITSE 1350	System Analysis and Design***	3
ITSE 1407	Introduction to C++ Programming***	4
ITSW 1307	Introduction to Database	3
ITSE 1491	Special Topics in Computer Programming: Gaming Programming.....	4
Elective	*Humanities/Fine Arts	3
	Total Hours	17

Fourth Semester

ITSE 2431	Advanced C++ Programming or ITSE 2449 Advanced Visual Basic***	3-4
ITSE 2457	Advanced Object-Oriented Programming	3
ITSC 2486	Internship-Computer & Information Sciences, General	4
Elective	Technical	3
Elective	Technical	3
	Total Hours	16-17
	GRAND TOTAL	65-67

* Suggested Elective PHIL 2306: Introduction to Ethics (Business Emphasis)

**Speech 1311, 1321, 1318, or 1315 must be taken also if the student chooses ENGL 1302

***Equivalent COSC or BCIS course may be substituted

SUGGESTED TECHNICAL ELECTIVES

ARTC 1313	Digital Publishing I
ARTS 2348	Digital Art I
ARTS 2349	Digital Art II
ITSC 1313	Internet/Web Page Development
ITSE 1356	Introduction to XML
ITSE 2313	Web Authoring
ITSE 2449	Advanced Visual BASIC Programming
MUSC 1327	Audio Engineering I

**ASSOCIATE OF APPLIED SCIENCE DEGREE
COMPUTER TECHNOLOGY
Computer Applications Technology**

FIRST YEAR

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405	3-4
ITSE 1329	Programming Logic and Design***	3
ENGL 1301	Composition I.....	3
ITSC 1309	Integrated Software Applications I	3
Elective	Social/Behavioral Science.....	3
	Total Hours	15-16

Second Semester

ITSE 1331	Introduction to Visual BASIC Programming***.	3
ITSW 1301	Introduction to Word Processing.....	3
ITSC 1313	Internet/Web Page Design.....	3
ENGL 2311	Technical and Business Writing or ENGL 1302**	3
MATH 1332	Contemporary Mathematics I or Math 1314 College Algebra.....	3
BMGT 1303	Principles of Management	3
	Total Hours	18

SECOND YEAR

Third Semester

ITSC 1305	Introduction to PC Operating Systems	3
ITSE 1350	System Analysis and Design***	3
ITSW 1307	Introduction to Database	3
ITSW 1310	Introduction to Presentation Graphics Software or ARTC 1313 Digital Publishing I.....	3
ITSY 1342	Information Technology Security	3
	Total Hours	15

Fourth Semester

ITSW 2334	Advanced Spreadsheets	3
ITSC 2486	Internship – Computer & Information Sciences, General	4
Elective	*Humanities/Fine Arts	3
Elective	Technical	3
Elective	Technical	3
	Total Hours	16
	GRAND TOTAL	64-65

* Suggested Elective PHIL 2306: Introduction to Ethics (Business Emphasis)

**Speech 1311, 1321, 1318, or 1315 must be taken also if the student chooses ENGL 1302

***Equivalent COSC or BCIS course may be substituted.

SUGGESTED TECHNICAL ELECTIVES

ARTC 1313	Digital Publishing I
CPMT 1311	Intro to Computer Maintenance
CPMT 1345	Computer Systems Maintenance
IMED 2309	Internet Commerce
ITNW 1321	Introduction to Networking
ITNW 2401	Administering Servers

ITNW	2405	Network Administration
ITNW	2413	Networking Hardware
ITNW	2415	Wide Area Networks
ITSE	1356	Introduction to XML
ITSE	1402	Computer Programming
ITSE	1407	Introduction to C++ Programming
ITSE	2313	Web Authoring
ITSE	2417	JAVA Programming
ITSE	2431	Advanced C++ Programming
ITSE	2449	Advanced Visual BASIC Programming
ITSE	2457	Advanced Object-Oriented Programming
ITSW	2337	Advanced Database
ITSY	1342	Information Technology Security

**ASSOCIATE OF APPLIED SCIENCE DEGREE
COMPUTER TECHNOLOGY
Repair Technician Option**

FIRST YEAR

First Semester

ITSC	1301	Introduction to Computers or BCIS 1405 Business Computer Applications	3-4
ITSE	1329	Programming Logic and Design***	3
CPMT	1311	Introduction to Computer Maintenance	3
ITSC	1305	Introduction to PC Operating Systems	3
ENGL	1301	Composition I.....	3
		Total Hours	15-16

Second Semester

ITSE	1331	Introduction to Visual BASIC Programming***.	3
Elective		Technical	3
ITNW	1321	Introduction to Networking****	3
ITSC	1309	Integrated Software Applications I	3
CPMT	1345	Computer System Maintenance****	3
ENGL	2311	Technical and Business Writing or ENGL 1302 Composition II**	3
		Total Hours	18

SECOND YEAR

Third Semester

ITSE	1350	System Analysis and Design***	3
BMGT	1303	Principles of Management	3
CPMT	1404	Microcomputer System Software****	4
Elective		Social/Behavior Science	3
MATH	1332	Contemporary Mathematics I or MATH 1314 College Algebra.....	3
		Total Hours	16

Fourth Semester

ITSY	1342	Information Technology Security	3
ITSC	2486	Internship – Computer & Information Sciences, General	4
Elective		*Humanities/Fine Arts	3
Elective		Technical	3
Elective		Technical	3
		Total Hours	16
		GRAND TOTAL	65-66

* Suggested Elective PHIL 2306: Introduction to Ethics (Business Emphasis)

**Speech 1311, 1321, 1318, or 1315 must be taken also if the student chooses ENGL 1302

***Equivalent COSC or BCIS course may be substituted.

**** Class must be taken in semester /order indicated.

SUGGESTED TECHNICAL ELECTIVES

ARTC 1313	Digital Publishing I
IMED 2309	Internet Commerce
ITNW 2405	Network Administration
ITNW 2413	Networking Hardware
ITNW 2415	Wide Area Networks
ITSC 1313	Internet/Web Page Development
ITSE 1407	Introduction to C++ Programming
ITSE 2313	Web Authoring
ITSE 2417	JAVA Programming
ITSE 2431	Advanced C++ Programming
ITSE 2449	Advanced Visual BASIC Programming
ITSE 2457	Advanced Object-Oriented Programming
ITSW 1307	Introduction to Database
ITSW 1310	Introduction to Presentation Media Software
ITSW 2334	Advanced Spreadsheets
ITSW 2337	Advanced Database

**ASSOCIATE OF APPLIED SCIENCE DEGREE
COMPUTER TECHNOLOGY
Network Administration Option**

FIRST YEAR

First Semester

ITSC 1301	Introduction to Computers or BCIS 1405	3-4
ITSE 1329	Program Logic and Design***	3
CPMT 1311	Introduction to Computer Maintenance	3
ENGL 1301	Composition I	3
ITNW 1321	Introduction to Networking	3
	Total Hours	15-16

Second Semester

ITSE 1331	Introduction to Visual BASIC Programming***	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSC 1309	Integrated Software Applications I	3
ITNW 2413	Network Hardware	4
BMGT 1303	Principles of Management	3
ENGL 2311	Technical and Business Writing or ENGL 1302**	3
	Total Hours	19

SECOND YEAR

Third Semester

ITNW 2401	Administering Servers	4
ITNW 2415	Wide Area Networks	4
ITSY 1342	Information Technology Security	3
MATH 1332	Contemporary Mathematics I or Math 1314	3
Elective	*Humanities/Fine Arts	3
	Total Hours	17

Fourth Semester

ITSE 1350	System Analysis and Design***	3
ITNW 2405	Network Administration	4
ITSC 2486	Internship – Computer & Information Sciences, General	4
Elective	Social/Behavioral Science	3
Elective	Technical****	3
	Total Hours	17

GRAND TOTAL 68-69

*Suggested Elective PHIL 2306: Introduction to Ethics (Business Emphasis)

**Speech 1311, 1321, 1318, or 1315 must be taken also if the student chooses ENGL 1302

***Equivalent COSC or BCIS course may be substituted

****Recommend JAVA as Technical elective

SUGGESTED TECHNICAL ELECTIVES

ARTC 1313	Digital Publishing I
CPMT 1345	Computer Systems Maintenance
IMED 2309	Internet Commerce
ITSC 1313	Internet/Web Development
ITSE 1359	Introduction to XML
ITSE 1402	Computer Programming
ITSE 1407	Introduction to C++ Programming
ITSE 2313	Web Authoring
ITSE 2417	JAVA Programming
ITSE 2431	Advanced C++ Programming
ITSE 2449	Advanced Visual BASIC Programming
ITSE 2457	Advanced Object-Oriented Programming
ITSW 1301	Introduction to Word Processing
ITSW 1307	Introduction to Database
ITSW 1310	Introduction to Presentation Graphics Software
ITSW 2337	Advanced Database

**ASSOCIATE OF APPLIED SCIENCE DEGREE
COMPUTER TECHNOLOGY
Web Technology**

FIRST YEAR

First Semester

BCIS 1405	Business Computer Applications.....	4
ITSE 1329	Programming Logic and Design***.....	3
ENGL 1301	Composition I.....	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSC 1313	Internet/Web Page Design.....	3
	Total Hours	16

Second Semester

ITSE 1331	Introduction to Visual BASIC Programming***.	3
ITSW 1310	Introduction to Presentation Graphics Software	3
ITSW 1307	Introduction to Database	3
ENGL 2311	Technical and Business Writing or ENGL 1302**	3
MATH 1332	Contemporary Mathematics I or MATH 1314	3
	Total Hours	15

SECOND YEAR

Third Semester

ITSE 1350	System Analysis and Design***.....	3
ITSE 2313	Web Authoring.....	3
ARTS 2348	Digital Art I or ARTS 2313 Design Communication I or ARTS 2314 Design Communication II.....	3
ITNW 2401	Administering Servers	4
Elective	Social/Behavioral Science.....	3
	Total Hours	16

Fourth Semester

IMED 2309	Internet Commerce.....	3
ITSE 2417	JAVA Programming***	4
ITSC 2486	Internship – Computer & Information Sciences, General	4
ARTC 1313	Digital Publishing I	3
Elective	*Humanities/Fine Arts	3
Elective	Technical	3
	Total Hours	20
	GRAND TOTAL	67

*Suggested Elective PHIL 2306: Introduction to Ethics (Business Emphasis)

**Speech 1311, 1321, 1318, or 1315 must be taken also if the student chooses ENGL 1302

***Equivalent COSC or BCIS course may be substituted

SUGGESTED TECHNICAL ELECTIVES

ARTC	1392	Special Topics in Design Visual Communications (See Geographic Information course descriptions)
ARTS	2356	Photography I
CRTG	1311	Introduction to GIS & GPS
ITSE	1311	Beginning Web Page Programming
ITSE	1356	Introduction to XML
MUSC	1327	Audio Engineering I

COMPUTER INFORMATION SYSTEMS

ARTC 1313: Digital Publishing I (3:2-2)

The fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with typography and page layout. Lab fee \$24.

CPMT 1311: Introduction to Computer Maintenance (3:2-2)

Introduction to the installation, configuration, and maintenance of a microcomputer system. Lab fee \$24.

CPMT 1345: Computer Systems Maintenance (3:2-2)

Functions of the components within a computer system. Development of skills in the use of test equipment and maintenance aids. Lab fee \$24. Prerequisite: CPMT 1311.

CPMT 1404: Microcomputer System Software (4:3-2)

Skill development in the installation, configuration, maintenance and troubleshooting of system software in microcomputers. Topics may include operating systems, utility software and other software affecting the basic operation of a microcomputer system. Lab fee \$24. Prerequisite: ITSC 1305.

IMED 2309: Internet Commerce (3:3-1)

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on-line transactions, and generating dynamic content. Lab fee \$24. Prerequisite: ITSE 2313.

ITNW 1321: Introduction to Networking (3:3-1)

Introduction to the fundamentals, basic concepts, and terminology of networks. Topics include the access and use of the Internet and networking hardware and software, including current developments in networking. Lab fee \$24.

ITNW 1325: Fundamentals of Networking Technologies (3:3-1)

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. Lab fee \$24.

ITNW 2401: Administering Servers (4:2-2)

Post-installation and day-to-day administration tasks of various network operating system servers. Lab fee \$24.

ITNW 2405: Network Administration (4:3-2)

Topics include network components, user accounts, and groups, network file systems, file system security, and network printing. Lab fee \$24.

ITNW 2413: Networking Hardware (4:3-2)

Maintain network hardware devices. Topics include network cables, servers, and workstations; network connectivity devices such as routers, hubs, bridges, gateways, repeaters, and uninterruptible power supplies; and other networking hardware devices. Lab fee \$24.

ITNW 2415: Wide Area Networks (4:3-2)

Introduce technologies and protocols used to move data, voice, and video across long distances. Basic concepts of how information is transported over a wide area network (WAN) from the physical layer to the application layer are also introduced. Lab fee \$24.

ITSC 1301: Introduction to Computers: (3:3-1)

Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources. Lab fee \$24.

ITSC 1305: Introduction to PC Operating Systems: (3:2-2)

A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. Lab fee \$24.

ITSC 1307: UNIX Operating System I: (3:2-2)

A study of the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts. Lab fee \$24.

ITSC 1309: Integrated Software Applications I: (3:2-2)

Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. Lab fee \$24.

ITSC 1311: AS/400 Operating System I: (3:2-2)

A study of the AS/400 operating system including multi-user concepts, terminal emulation, use of system editor, basic AS/400 menus, commands, and help screens. Topics include introductory system management concepts and file management. Lab fee \$24.

ITSC 1313: Internet/Web Page Development: (3:2-2)

Instruction in the use of Internet services and the fundamentals of web page design and web site development. Lab fee \$24.

ITSC 2486: Internship - Computer and Information Sciences, General: (4:1-19)

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. This may be a paid or unpaid experience. Prerequisite: 24 credit hours of CIS classes. To be taken last semester of degree plan or with prior approval of instructor.

ITSE 1294: Special Topics in Computer Science: Information Technology in Health Care Occupations: (2:1-2)

The student will describe the purpose and value of information technology in a health care setting; demonstrate ability to successfully complete computerized tasks using software available; describe various uses of computers and information technology in health care. (This course is for students whose major is in health occupations.) Lab fee \$24.

ITSE 1311: Beginning Web Page Programming: (3:2-2)

Web page programming including mark-up and scripting languages. May include use of XHTML, CGI, JavaScript, and/or ASP. Introduction to structure and object oriented programming design. Lab fee \$24.

ITSE 1314: Introduction to RPG Programming: (3:2-2)

Introduction to computer programming using RPG. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Lab fee \$24.

ITSE 1318: Introduction to COBOL Programming: (3:2-2)

Introduction to computer programming using COBOL. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Lab fee \$24.

ITSE 1329: Programming Logic and Design: (3:3-0)

A disciplined approach to problem-solving with structured techniques and representation of algorithms using appropriate design tools. Discussion of methods for testing, evaluation, and documentation.

ITSE 1331: Introduction to Visual BASIC Programming: (3:2-2)

Introduction to computer programming using Visual BASIC. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Lab fee \$24.

ITSE 1350: System Analysis and Design: (3:3-1)

Comprehensive introduction to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools. Lab fee \$24.

ITSE 1356: Introduction to XML (3:2-2)

Introduction of skills and practice related to the Extensible Markup Language/Simple Object Access Protocol. Topics to be covered will include: elements, attributes, namespaces, entities, and what constitutes a well-formed document. Lab fee \$24

ITSE 1402: Computer Programming (4:3-2)

Introduction to computer programming with emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Lab fee \$24.

ITSE 1407: Introduction to C++ Programming: (4:3-2)

Introduction to computer programming using C++. Emphasis on the fundamentals of structured design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Lab fee \$24.

ITSE 1491: Special Topics in Computer Programming: Gaming Programming (4:3-2)

This course will cover advanced topics using C++. Topics will include graphics, points and vectors, pointers, and pointer applications. Lab fee \$24.

ITSE 2313: Web Authoring: (3:2-2)

Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools. Lab fee \$24.

Prerequisite: ITSC 1313

ITSE 2417: JAVA Programming: (4:3-2)

Introduction to JAVA programming with object-orientation. Emphasis on the fundamental syntax and semantics of JAVA for applications and web applets. Lab fee \$24.

ITSE 2431: Advanced C++ Programming: (4:3-2)

Further application of C++ programming techniques including subjects such as file access, abstract data structures, class inheritance, and other advanced techniques. Lab fee \$24.

ITSE 2449: Advanced Visual BASIC Programming: (4:3-2)

Further applications of programming techniques using Visual BASIC. Topics include file access methods, data structures and modular programming, program testing and documentation.

Lab fee \$24.

ITSE 2451: Advanced COBOL Programming: (4:3-2)

Further applications of programming techniques using COBOL, including file access methods, data structures and modular programming, program testing and documentation. Lab fee \$24.

ITSE 2457: Advanced Object-Oriented Programming: (4:3-2)

Application of advanced object-oriented programming techniques such as abstract data structures, class inheritance, virtual functions, and exception handling. Lab fee \$24.

ITSW 1301: Introduction to Word Processing (3:2-2)

An overview of the production of documents, tables, and graphics. Lab fee \$24.

ITSW 1307: Introduction to Database: (3:2-2)

Introduction to database theory and the practical applications of a database. Lab fee \$24.

ITSW 1310: Introduction to Presentation Graphics Software: (3:2-2)

Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development. Lab fee \$24.

ITSW 2334: Advanced Spreadsheets: (3:2-2)

Designed to provide an understanding of advanced functionality of electronic spreadsheets.

Lab fee \$24.

ITSW 2337: Advanced Database: (3:2-2)

Designed to provide an understanding of advanced functionality of databases. Lab fee \$24.

ITSY 1342: Information Technology Security (3:2-2)

Instruction in security for network hardware, software, and data, including physical security, backup procedures, relevant tools, encryption, and protection from viruses. Lab fee \$24.

ITSY 2301: Firewalls and Network Security (3:2-2)

Identify elements of firewall design, types of security threats and responses to security attacks.

Use best practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Lab fee \$24.

ITSY 2400: Operating System Security (4:3-2)

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards.

Lab fee \$24.

ITSY 2441: Security Management Practices (4:3-2)

In-depth coverage of security management practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan.

Lab fee \$24.

**CRIMINAL JUSTICE
LEVEL-1 CERTIFICATE (TSI WAIVED)
CRIMINAL JUSTICE CERTIFICATE**

First Semester

CJSA 1308	Criminalistics I	3
CJSA 1312	Crime in America	3
CJSA 1313	Court System and Practices	3
CJSA 1322	Introduction to Criminal Justice.....	3
	Total	12

Second Semester

CJSA 2323	Criminalistics II	3
CJSA 1327	Fundamentals of Criminal Justice	3
CJSA 1342	Criminal Investigation.....	3
CJSA 1359	Police System and Practices.....	3
	Total	12

Third Semester

CJSA 2332	Criminalistics III	3
CJSA 2300	Legal Aspects of Law Enforcement.....	3
Elective	Criminal Justice	3
	Total	9
	GRAND TOTAL	33

Students that have completed the Texas Commission on Law Enforcement Officers and Education 560 hour Basic Peace Officer course may be awarded: CJLE 2520, CLJE 2521, and CJLE 2522.

Suggested Electives

CJSA 1317	Juvenile Justice System
CJSA 1382	Cooperative Education-Criminal Justice Studies
CJCR 1307	LE-Correctional Systems and Practices
CJCR 2324	LE-Community Resources in Corrections
CJLE 2247	Tactical Skills for Police

ASSOCIATE OF APPLIED SCIENCE DEGREE

**Criminal Justice
TCLEOSE Option**

(For CRN course descriptions, see Criminal Justice, Academic Transfer)

FIRST YEAR

First Semester

CRIJ 1306	Court Systems and Practices	3
CRIJ 1307	Crime in America	3
CJLE 1211	Basic Firearms	2
ENGL 1301	Composition I.....	3
MATH 1332	Contemporary Mathematics.....	3
	Total	14

Second Semester

CRIJ 1301	Introduction to Criminal Justice.....	3
CRIJ 1310	Fundamentals of Criminal Law	3
CJLE 1333	Traffic Law and Investigation	3
CJLE 2522	Texas Peace Officer Skills	5
ENGL 2311	Technical and Business Writing	3
	Total	17

SECOND YEAR

Third Semester

CRIJ 2314	Criminal Investigation.....	3
CRIJ 2328	Police System and Practices.....	3
CJLE 2521	Texas Peace Officer Law	5
CJLE 1394	Special Topics in Law Enforcement/Police Science	3
SOCI 2336	Introduction to Social Justice	3
	Total	17

Fourth Semester

CJLE 2247	Tactical Skills for Police	2
CJSA 1382	Cooperative Education – Criminal Justice Studies	3
CRIJ 2323	Legal Aspects of Law Enforcement.....	3
CJLE 2520	Texas Peace Officer Procedures	5
PHIL 2306	Introduction to Ethics (Business Ethics)	3
	Total	16
	GRAND TOTAL	64

Students that have successfully completed the Texas Commission on Law Enforcement Officers and Education 560 hour Basic Peace Officer course may be awarded: CJLE 2522, CJLE 2521, and CJLE 2520.

ASSOCIATE OF APPLIED SCIENCE DEGREE

**Criminal Justice
Non-TCLEOSE Option**

FIRST YEAR

First Semester

CJSA 1313	Court Systems and Practices	3
CJSA 1312	Crime in America	3
Electives	Non-TCLEOSE	3
ENGL 1301	Composition I.....	3
MATH 1332	Contemporary Mathematics.....	3
	Total	15

Second Semester

CJSA 1322	Introduction to Criminal Justice.....	3
CJSA 1327	Fundamentals of Criminal Law	3
Electives	Non-TCLEOSE	6
ENGL 2311	Technical and Business Writing	3
	Total	15

SECOND YEAR

Third Semester

CJSA 1342	Criminal Investigation.....	3
CJSA 1359	Police System and Practices.....	3
Electives	Non-TCLEOSE	6
SOCI 2336	Introduction to Social Justice.....	3
	Total	15

Fourth Semester

CJLE 2247	Tactical Skills for Police	2
CJSA 1382	Cooperative Education – Criminal Justice Studies	3
CJSA 2300	Legal Aspects of Law Enforcement.....	3
Electives	Non-TCLEOSE	8
PHIL 2306	Introduction to Ethics (Business Ethics)	3
	Total	19
	GRAND TOTAL	64

Non-TCLEOSE Option

(Must take 21 credit hours from the following)

CJCR 1307	LE-Correctional Systems and Practices
CJCR 2324	LE-Community Resources in Corrections
CJLE 1333	Traffic Law and Accident Investigation
CJLE 1394	Special Topics Police Science
CJSA 1317	Juvenile Justice Systems
CJSA 1308	Criminalistics I
CJSA 2323	Criminalistics II
CJSA 2332	Criminalistics III
GOVT 2301	State and Federal Government Processes
GOVT 2302	Forms of State and Federal Government
SPAN 1411	Beginning Spanish
SPCH 1311	Introduction to Speech Communications

CRIMINAL JUSTICE

CJCR 1307: LE-Correctional Systems and Practices (3:3-0)

Corrections in the criminal justice systems, organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, current and future issues.

CJCR 2324: LE-Community Resources in Corrections (3:3-0)

An introductory study of the role of the community in corrections, community programs for adults and juveniles, administration of community programs, legal issues, future trends in community treatment.

CJLE 1211: Basic Firearms (2:2-1)

Instruction in firearm safety, cleaning and care techniques, proper shooting principles, and proficiency with a handgun and shotgun. Lab fee \$24.

CJLE 1333: Traffic Law and Investigation (3:2-2)

Instruction in the basic principles of traffic control, traffic law enforcement, courts procedures, and traffic law. Emphasis on the need for a professional approach in dealing with traffic law violators and the police role in accident investigation and traffic supervision. Lab fee \$24

CJLE 1394: Special Topics in Law Enforcement/Police Science (3:3-1)

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Lab fee \$24.

CJLE 2247: Tactical Skills for Police (2:2-0)

Development of proficiency with a range of impact weapons and/or chemical agents and defensive techniques necessary to control violent person.

CJLE 2520: Texas Peace Officer Procedures (5:4-4)

A study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, note taking and report writing, vehicle operation, traffic direction crowd control and jail operations.

*****STUDENTS WHO COMPLETE THE 7 TCLEOSE-APPROVED ACADEMIC CRIJ COURSES AND THE 3 SEQUENCE COURSES (FOR A TOTAL OF 10 TCLEOSE ACADEMIC LICENSING REQUIREMENTS) MAY BE CERTIFIED TO SIT FOR THE TCLEOSE LICENSING EXAM. APPROVAL BY THE DESIGNATED COLLEGE DEPARTMENTAL ADMINISTRATOR IS REQUIRED.** Lab fee \$24.

CJLE 2521: Texas Peace Officer Law (5:4-4)

Study of laws that are directly related to police field work. Topics include Texas Transportation Code, intoxicated driver, Texas Penal Code, elements of crimes, Texas Family Code, Texas Alcoholic Beverage Code, and civil liability.

*****STUDENTS WHO COMPLETE THE 7 TCLEOSE-APPROVED ACADEMIC CRIJ COURSES AND THE 3 SEQUENCE COURSES (FOR A TOTAL OF 10 TCLEOSE ACADEMIC LICENSING REQUIREMENTS) MAY BE CERTIFIED TO SIT FOR THE TCLEOSE LICENSING EXAM. APPROVAL BY THE DESIGNATED COLLEGE DEPARTMENTAL ADMINISTRATOR IS REQUIRED.** Lab fee \$24.

CJLE 2522: Texas Peace Officer Skills (5:4-4)

Requires the demonstration and practice of the skills of a police officer including patrol, driving, traffic stop skills, use of force, mechanics of arrest, firearm safety, and emergency medical care.

*****STUDENTS WHO COMPLETE THE 7 TCLEOSE-APPROVED ACADEMIC CRIJ COURSES AND THE 3 SEQUENCE COURSES (FOR A TOTAL OF 10 TCLEOSE ACADEMIC LICENSING REQUIREMENTS) MAY BE CERTIFIED TO SIT FOR THE TCLEOSE LICENSING EXAM. APPROVAL BY THE DESIGNATED COLLEGE DEPARTMENTAL ADMINISTRATOR IS REQUIRED.** Lab fee \$24.

CJSA 1308: Criminalistics I (3:3-0)

Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis.

CJSA 1312: Crime in America (3:3-0)

American crime problems in historical perspective, social and public factors affecting crime, impact and crime trends, social characteristics of specific crimes, prevention of crime.

CJSA 1313: Court Systems and Practices (3:3-0)

The judiciary in the criminal justice system, structure of the American court system, prosecution; right to counsel, pretrial release, grand juries, adjudication process, types and rules of evidence, sentencing.

CJSA 1317: Juvenile Justice System (3:3:0)

A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

CJSA 1322: Introduction to Criminal Justice (3:3-0)

History and philosophy of criminal justice and ethical considerations, crime defined, its nature and impact, overview of criminal justice system, law enforcement, court system, prosecution and defense, trial process, corrections.

CJSA 1327: Fundamentals of Criminal Law (3:3-0)

A study of the nature of criminal law, philosophical and historical development, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas statutes as illustrations, criminal responsibility.

CJSA 1342: Criminal Investigation (3:3-0)

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation.

CJSA 1359: Police System and Practices (3:3-0)

The police profession, organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, current and future issues.

CJSA 1382: Cooperative Education-Criminal Justice Studies (3:1-20)

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

CJSA 2300: Legal Aspects of Law Enforcement (3:3-0)

Police authority, responsibilities, constitutional restraints, laws of arrest, search, and seizure police liability.

CJSA 2323: Criminalistics II (3:2-2)

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification. Lab fee \$24.

CJSA 2332: Criminalistics III (3:2-4)

A study of the practical aspects of criminalistics procedures. Topics include crime scene investigation, collecting and preserving evidence, and testifying in court. Lab fee \$24.

DENTAL HYGIENE

This program prepares dental hygiene students to be primary oral health-care professionals who play a key role in promoting oral health through educational, preventive and therapeutic services. The curriculum consists of general education, biomedical sciences, dental sciences, and dental hygiene sciences all provided within a framework of academic and clinical experience.

An Associate of Applied Science degree is awarded upon graduation. Dental hygienists have employment opportunities in general and specialty dental practices and clinics, pharmaceutical and dental supply companies, community health agencies, education and research institutions, and management settings. Dental Hygiene program graduates must pass the written National Board Examination, Regional and/or State Examination, and a state jurisprudence examination to be eligible to apply for state licensure.

Students desiring admission to the program must first meet the basic entrance requirements for Temple College and then file for admission to the Dental Hygiene Program. Enrollment is limited and admission is competitive. Special program admission criteria and procedures are necessary to be accepted into the program.

Program Admission Criteria

Applicants must meet the following requirements:

1. It is highly recommended that students attend a pre-application Dental Hygiene Program Information Session.
2. Complete the Temple College admission procedure.
3. Pass all three sections of the Texas Success Initiative.
4. Provide copies of all relevant transcripts: 1) high school or GED; 2) college/university; and 3) other
5. Provide official transcript of course grades. Prerequisite courses required prior to the application deadline are: BIOL 2401, BIOL 2421, and CHEM 1305 and CHEM 1105. Completion of BIOL 2402 is required prior to enrolling in DHYG 1301 and DHYG 1431. Applicants must have a minimum of a "C" or better in each course. A minimum cumulative grade point average (GPA) of 2.5 is required for admission to the Dental Hygiene Program. Biological science courses must have been taken within the past five years.
6. Pass the pre-entrance departmental aptitude test, the HOBET.
7. Complete a Dental Hygiene Program Admissions Application form.
8. Demonstrate competency in fundamental mathematical skills by a placement test score of a minimum performance level in elementary algebra.
9. Completion of the above admission criteria does not guarantee admission to the Dental Hygiene Program. The highest qualified applicants will be ranked according to scores of the program admission criteria. Twelve applicants will be accepted each year.
10. Upon conditional acceptance into the program, the following must be provided:
 - a. Pre-entry physical and visual acuity examinations (prior to beginning the Dental Hygiene Program and annually thereafter), including proof of required immunizations;
 - b. Documentation of current Cardiopulmonary Resuscitation Certification for the Health Care Provider (prior to beginning the Dental Hygiene Program and annually thereafter).
 - c. Documentation of student professional liability insurance, and must remain current thereafter.

Deadline for applying to the Dental Hygiene Program is January 20. Letters of notification will be mailed by March 1. Accepted applicants have until March 15 to notify the Program Director in writing of applicants' intentions.

REQUIREMENTS FOR ASSOCIATE OF APPLIED SCIENCE DEGREE IN DENTAL HYGIENE

To graduate with a Temple College Associate of Applied Science degree in Dental Hygiene, the following requirements must be met:

1. Six semester hours of English: ENGL 1301 and 2311. ENGL 1302 may be used instead of ENGL 2311 if the student also takes three hours of speech: SPCH 1311, 1321, 1318, or 1315.
2. Eight semester hours of human anatomy and physiology: BIOL 2401 and 2402; four semester hours of chemistry: CHEM 1305 and CHEM 1105; and four semester hours of microbiology: BIOL 2421.
3. Six semester hours in social and behavioral sciences: PSYC 2301 and SOCI 1301.
4. Three semester hours in fine arts or humanities to be selected from the disciplines of art, history, literature, music, speech (excluding SPCH 1311, 1321, 1318, and 1315), and theater. Students may select one course of three semester hours credit or several courses totaling three semester hours credit.
5. At least 72 semester hours of course credit, exclusive of all 0000-level courses.

6. Included in the 72 semester hours of course work must be all of the required dental hygiene courses for a total of 41 hours credit.
7. The student must be enrolled in Temple College during the semester of his/her graduation.
8. The student must have completed the last 15 semester hours of the work toward graduation at Temple College or have earned a total of 30 semester hours of TC work applicable toward the graduation requirements.
9. For any variation from the above prescribed requirements to be counted toward graduation, a written statement to this effect, signed by the Dental Hygiene Department Chairperson and the Vice President of Educational Services must be on file in the student's record folder.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
Dental Hygiene**

PREREQUISITES

CHEM 1305	Introductory Chemistry I and CHEM 1105	4
BIOL 2421	Microbiology.....	4
BIOL 2401	Human Anatomy and Physiology I.....	4
MATH	Competency Demonstration	
BIOL 2402	Human Anatomy and Physiology II.....	4
	Total	16

FIRST YEAR

Summer Semester (12 Weeks)

DHYG 1301	Orofacial Anatomy, Histology and Embryology..	3
DHYG 1327	Preventive Dental Hygiene Care	3
	Total	6

Fall Semester

DHYG 1431	Preclinical Dental Hygiene	4
DHYG 1304	Dental Radiology.....	3
DHYG 2201	Contemporary Dental Hygiene Care I.....	2
ENGL 1301	Composition I.....	3
	Total	12

Spring Semester

DHYG 1211	Periodontology	2
DHYG 1260	Clinical-Dental Hygienist I	2
DHYG 1207	General and Dental Nutrition	2
DHYG 2231	Contemporary Dental Hygiene Care II.....	2
DHYG 1235	Pharmacology for the Dental Hygienist.....	2
PSYC 2301	General Psychology	3
	Total	13

SECOND YEAR

Summer Semester

DHYG 1319	Dental Materials	3
	Total	3

Fall Semester

DHYG 2361	Clinical-Dental Hygienist II.....	3
DHYG 1315	Community Dentistry	3
DHYG 1239	General and Oral Pathology	2
SOCI 1301	Introduction to Sociology	3
ENGL 2311	Technical/Business Writing	3

ENGL 1302	Or	
	Composition II and	
	Speech SPCH 1311, 1315, 1318, or 1321.....	3
	Total	14

Spring Semester

DHYG 2262	Clinical-Dental Hygienist III.....	2
DHYG 1123	Dental Hygiene Practice	1
DHYG 1291	Special Topics in Dental Hygiene	2
Elective	Fine Arts/Humanities	3
	Total	8

GRAND TOTAL 72

DENTAL HYGIENE

DHYG 1123: Dental Hygiene Practice (1:1-0)

Examination of the dental hygienist's role in practice settings, including dental office management, employment considerations, resume preparation, and job interviewing. Emphasis on the laws governing the practice of dentistry and dental hygiene and the ethical standards established by the dental hygiene profession. Prerequisites: DHYG 2231, DHYG 2361, DHYG 1315, SOCI 1301, ENGL 2311. Corequisites: DHYG 2262, DHYG 1291, and a Fine Arts/Humanities Elective. A grade of "C" or higher is required in all prerequisite and corequisite courses. R, W, M.

DHYG 1207: General and Dental Nutrition (2:2-0)

A study of general nutrition and nutritional biochemistry with emphasis on the effects of nutrition and dental health. Analysis of diet and application of counseling strategies to assist the patient in attaining and maintaining optimum oral health are stressed. Prerequisites: DHYG 1301, DHYG 1431, DHYG 1304, ENGL 1301. Corequisites: DHYG 2201, DHYG 1211, DHYG 1260, DHYG 1239, PSYC 2301. A grade of "C" or higher is required in all prerequisite and corequisite courses. R, W, M.

DHYG 1211: Periodontology (2:2-1)

Study of normal and diseased periodontium to include the structural, functional, and environmental factors. Emphasis on etiology, pathology, treatment modalities, and therapeutic and preventive periodontics in a contemporary private practice setting. Prerequisites: DHYG 1301, DHYG 1431, DHYG 1304, ENGL 1301. Corequisites: DHYG 2201, DHYG 1211, DHYG 1260, DHYG 1207, DHYG 1239, PSYC 2301. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$20 lab fee. R, W, M.

DHYG 1327: Preventive Dental Hygiene Care (3:3-1)

Study of the dental hygienist in the dental health care system and the basic concepts of disease prevention and health promotion. Communication and behavior modification skills are emphasized to facilitate the role of the dental hygienist as an educator. Prerequisites: Formal admission to the program; BIOL 2421, CHEM 1305, CHEM 1105, BIOL 2401, BIOL 2402. A grade of "C" or higher is required in all prerequisite courses. \$24 lab fee. R,W,M.

DHYG 1235: Pharmacology for the Dental Hygienist (2:2-0)

A study of the classes of drugs and their uses, actions, interactions, side effects, contraindications, and oral manifestations with emphasis on dental applications. Prerequisites: DHYG 2201, DHYG 1211, DHYG 1260, DHYG 1207, DHYG 1239, PSYC 2301. Corequisite: DHYG 1319. A grade of "C" or higher is required in all prerequisite and corequisite courses. R, W, M.

DHYG 1239: General and Oral Pathology (2:2-0)

General study of disturbances in human body development, diseases of the body, and disease prevention measures. Emphasis on the oral cavity and associated structures. Prerequisites: DHYG 1301, DHYG 1431, DHYG 1304. Corequisites: DHYG 2201, DHYG 1211, DHYG 1260, DHYG 1207, PSYC 2301. A grade of "C" or higher is required in all prerequisite and corequisite courses. R, W, M.

DHYG 1260: Clinical Dental Hygienist I (2:0-12)

Health-related work-based learning experiences that enable the learner to apply specialized occupational theories, skills, and concepts. This instruction provides detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, and evaluation are the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Prerequisites: DHYG 1301, DHYG 1431, DHYG 1304, ENGL 1301. Corequisites: DHYG 2201, DHYG 1211, DHYG 1207, DHYG 1239, PSYC 2301. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 clinical fee. R, W, M.

DHYG 1291: Special Topics in Dental Hygiene (2:1-4)

An in-depth study of selected topics that addresses recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the dental health care delivery system and to the professional development of the student. This instruction is designed to serve as a capstone experience offered in the spring semester of the sophomore year. The topic is announced prior to registration. Prerequisites: successful completion of all prior required dental hygiene courses, SOCI 1301, ENGL 2311. Corequisites : DHYG 2262, DHYG 1123, Fine Arts/Humanities elective. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$24 lab fee. R, W, M.

DHYG 1301: Orofacial Anatomy, Histology and Embryology (3:2-4)

A study of histology and embryology of oral tissues, gross anatomy of the head and neck, tooth morphology, and individual tooth identification. Prerequisite: DHYG 1327. Corequisites: DHYG 1304, DHYG 1431, ENGL 1301. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$20 lab fee. R, W, M.

DHYG 1304: Dental Radiography (3:2-4)

A study of radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral and extra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques. Prerequisite: DHYG 1327. Corequisites: DHYG 1301, DHYG 1431, ENGL 1301. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 radiology film fee ; R, W, M.

DHYG 1315: Community Dentistry (3:3-1)

Study of the principles and concepts of community public health and dental health education with an emphasis on community assessment, educational planning, implementation, and evaluation. Laboratory emphasizes methods and materials used in teaching dental health education in various community settings. Prerequisites: DHYG 1319, DHYG 1235. Corequisites: DHYG 2231, DHYG 2361, SOCI 1301, ENGL 2311. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$24 lab fee. R, W, M.

DHYG 1319: Dental Materials (3:2-4)

Study of dental materials including the physical and chemical properties and application of the various materials used in dentistry. Student experiences include manipulation of dental materials in the lab setting. Prerequisites: DHYG 2201, DHYG 1211, DHYG 1260, DHYG 1207, DHYG 1239, PSYC 2301. Corequisite: DHYG 1235. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 dental materials fee. R, W, M.

DHYG 1431: Pre-clinical Dental Hygiene (4:2-6)

Foundational knowledge and skills of dental hygiene theory and practice. Emphasis on principles, procedures, and professionalism for performing comprehensive oral prophylaxis. Prerequisite: DHYG 1327. Corequisites: DHYG 1301, DHYG 1304, ENGL 1301. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 clinical fee; \$20 liability insurance fee. R, W, M.

DHYG 2201: Contemporary Dental Hygiene Care I (2:2-0)

A continuation of the study of dental hygiene theory and practice to include introduction to dental hygiene care for the medically or dentally compromised patient. Emphasizes supplemental instrumentation techniques. Prerequisites: DHYG 1301, DHYG 1431, DHYG 1304, ENGL 1301. Corequisites: DHYG 1211, DHYG 1260, DHYG 1207, DHYG 1239, PSYC 2301. A grade of "C" or higher is required in all prerequisite and corequisite courses R, W, M.

DHYG 2231: Contemporary Dental Hygiene Care II (2:2-0)

A continuation of dental hygiene care for the medically or dentally compromised patient with emphasis on advanced instrumentation techniques. Prerequisites: DHYG 1319, DHYG 1235. Corequisites: DHYG 2361, DHYG 1315, SOCI 1301, ENGL 2311. A grade of "C" or higher is required in all prerequisite and corequisite courses. R, W, M.

DHYG 2361: Clinical Dental Hygienist II (3:0-16)

Health-related work-based learning experiences that enable the learner to apply specialized occupational theories, skills, and concepts. This instruction provides detailed education, training and work-based experience and direct patient/client care. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, and evaluation are the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Prerequisites: DHYG 1319, DHYG 1235. Corequisites: DHYG 2231, DHYG 1315, SOCI 1301, ENGL 2311. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 clinical fee, \$20 liability insurance fee. R, W, M.

DHYG 2362: Clinical Dental Hygienist III (2:0-12)

Health-related work-based learning experiences that enable the learner to apply specialized occupational theories, skills, and concepts. This instruction provides detailed education, training and work-based experience and direct patient/client care. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, and evaluation are the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences.. Course may be repeated if topics and learning outcomes vary. Prerequisites: DHYG 2231, DHYG 2361, DHYG 1315, SOCI 1301, ENGL 2311. Corequisites: DHYG 1123, DHYG 1291, and a Fine Arts/Humanities Elective. A grade of "C" or higher is required in all prerequisite and corequisite courses. \$30 clinical fee. R, W, M.

**EDUCATIONAL PERSONNEL
LEVEL 1 CERTIFICATE (TSI WAIVED)
Teacher Assistant Certificate**

ONE YEAR

First Semester

EDTC 1301	Educational Systems	3
EDTC 1307	Introduction to Teaching Reading.....	3
ITSC 1301	Introduction to Computers.....	3
CDEC 2315	Diverse Cultural/Multilingual Education.....	3
EDTC 2317	Guiding Student Behavior.....	3
	Total Hours.....	15

Second Semester

CDEC 1419	Child Guidance.....	3
EDTC 1311	Instructional Practices and Effective Learning Environments	3
EDTC 1313	Educational Software and Technology.....	3
CDEC 1359	Children with Special Needs.....	3
	Total Hours.....	12
	GRAND TOTAL.....	27

ASSOCIATE OF APPLIED SCIENCE DEGREE

Educational Personnel*

FIRST YEAR

First Semester

EDTC 1301	Educational Systems.....	3
EDTC 1307	Introduction to Teaching Reading.....	3
ITSC 1301	Introduction to Computers.....	3
ENGL 1301	Composition I	3
Elective	Program Related Elective.....	3
	Total Hours.....	15

Second Semester

CDEC 2315	Diverse Cultural/Multilingual Education.....	3
Elective	Program Related Elective.....	3
EDTC 1311	Instructional Practices and Effective Learning Environments	3
EDTC 1313	Educational Software and Technology.....	3
ENGL 2311	Technical and Business Writing.....	3
Elective	Math or Science	3
	Total Hours.....	18

SECOND YEAR

Third Semester

Elective	Social Science/Behavioral Science	3
EDTC 2317	Guiding Student Behavior.....	3
CDEC 1359	Children with Special Needs.....	3
Elective	Program Related Elective.....	3
Elective	Humanities or Fine Arts.....	3
	Total Hours.....	15

Fourth Semester

EDTC 2305	Reading Problems.....	3
CDEC 1419	Child Guidance.....	3
EDTC 2364	Practicum	3
SOCI 1306	Current Social Problems	3
Elective	Program Related Elective.....	3
	Total Hours.....	15
	GRAND TOTAL.....	63

*Also Teacher Assistant Bilingual/ESL: substitute a foreign language for the program related electives and add a lab science.

SUGGESTED ELECTIVES

BMGT	1301	Supervision
CDEC	1323	Observation and Assessment
CDEC	1354	Child Growth and Development
CDEC	1357	Math and Science for Early Childhood
CDEC	1358	Creative Arts for Early Childhood
CDEC	2441	The School Age Child
TECA	1303	Families, School and Community
TECA	1318	Wellness of the Young Child

EDUCATIONAL PERSONNEL

EDTC 1301: Educational Systems (3:3-0)

A study of the role and responsibilities of educational personnel with emphasis on development of professionalism and effective communication strategies with adults. Topics include the various codes of ethics governing the educational field, the issue of confidentiality, learners' rights and responsibilities, and challenges facing schools.

EDTC 1307: Introduction to Teaching Reading (3: 3-0)

General principles of reading instruction. Topics include emergent literacy, reading readiness, reading instruction, literacy-based environments, and a review of varied materials and techniques for teaching reading.

EDTC 1311: Instructional Practices and Effective Learning Environment (3:3-0)

General principles for selecting developmentally appropriate strategies in core curriculum areas and planning the classroom environment. Topics address methods for supporting instructional planning and implementation of educational goals. Exploration of teamwork skills and methods for providing instructional accommodations and modifications.

EDTC 1313: Educational Software and Technology (3:3-0)

Introduction to the use of educational software, instructional applications, and technology in the educational setting. Evaluate the use of technology for guided practice and self-paced student remediation.

EDTC 2305: Reading Problems (3: 3-0)

In-depth coverage of reading difficulties. Emphasis on the theories, strategies, recognition, and remediation of reading problems. Topics include assessment, direct instruction, and motivational/interactive literacy activities.

EDTC 2317: Guiding Student Behavior (3:3-0)

A study of developmentally appropriate direct and indirect guidance techniques for use in various school environments. Topics include identification of causes of inappropriate behavior, establishing and managing routines, the environment's role in promoting positive behavior, promoting self-esteem negotiation/conflict resolution strategies, and enhancing positive self-direction. Emphasis in implementation of a behavior management plan.

EDTC 2364: Practicum Teacher Assistant/Aide (3:1-21)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

EMERGENCY MEDICAL SERVICES PROFESSIONS

THE PROFESSION AND THE PROGRAM

The primary role of Emergency Medical Services (EMS) professionals is providing patient care in pre-hospital settings and during transfers of patients between health care facilities. They respond to requests for out-of-hospital health care, assess patients, initiate treatment under written or verbal orders from a physician, and transport patients to appropriate facilities. Care that otherwise would be available only in an emergency department is taken into the community. EMS professionals also care for patients who are being transported between health care facilities, both in ground vehicles and on aircraft.

Employers of EMS professionals include ambulance services, fire departments, law enforcement agencies, and aeromedical transport services. In some areas, EMS professionals work in hospital emergency departments and critical care units. With additional education and experience, they also fill positions in EMS systems administration, industrial health and safety, emergency management, and emergency services education.

The Emergency Medical Services (EMS) Professions Department provides course work necessary to prepare students for practice as competent entry-level: (1) EMT-Basics, (2) EMT-Intermediates, or (3) Paramedics. Graduates are eligible for the certification exams offered by the National Registry of Emergency Medical Technicians (NREMT) and for certification or licensure by the Texas Department of State Health Services (DSHS).

A two-year program leads to an Associate of Applied Science degree in Emergency Medical Services. EMT-Intermediate and Paramedic Certificates of Completion are available for students who do not wish to pursue an associate's degree. The Department offers courses at both Temple and Taylor.

ADMISSION TO THE DEPARTMENT

There is no discrimination based on race, color, religion/creed, age, sex, disabling conditions, handicaps, or national origin. To be admitted to the EMS program, students must first meet the basic entrance requirements for admission to Temple College. However, admission to Temple College does not constitute automatic acceptance into the EMS program.

Applicants who believe they have a disability that will require accommodations during the application process or during their enrollment should contact the EMS Professions Department as early as possible. Students must be able to successfully complete all course and program requirements.

Persons enrolling in the EMT-Basic course (EMSP 1501/1160) must:

1. Apply for and achieve admission to Temple College.
2. Hold a high school diploma or a GED. (High school seniors may enroll but they must hold a high school diploma and be 18 years old to become eligible for certification.)
3. Document immunization against tetanus, diphtheria, mumps, measles, rubella, varicella, and hepatitis B (Some immunization series require five month to complete) Students must have all immunization completed prior to beginning the clinical rotations).
4. Document results from a tuberculosis skin test or chest x-ray performed within the previous 12 months.
5. Submit a completed EMT application packet.

A completed EMT application portfolio must be submitted according to deadlines established by the EMSP Department. The portfolio must include:

1. Verification of immunization against tetanus, diphtheria, mumps, measles, rubella, varicella, and hepatitis B.
2. Results from a tuberculosis skin test or chest x-ray performed within the last 12 months.
3. Documentation of high school graduation or a GED.

The number of students in the EMT program is limited by spaces available for clinical experience in affiliated hospitals and EMS provider organizations. Enrollment is available on a first come first serve basis.

Persons enrolling in the Intermediate or Paramedic course must:

1. Apply for and achieve admission to Temple College
2. Document immunization against tetanus, diphtheria, mumps, measles, rubella, varicella, and hepatitis B. (Some immunization series require five month to complete) Students must have all immunization completed prior to beginning the clinical rotations).

3. Document results from a tuberculosis skin test or chest x-ray performed within the previous 12 months.
4. Show proof of EMT-Basic certification (NREMT or Texas DSHS). (Students who have completed an EMT course and are in the process of obtaining EMT certification are eligible to enroll.)
5. Submit a completed advanced application packet. Applicants for the intermediate or paramedic program who have completed an EMT-Basic course but who do not yet hold EMT-Basic certification may be accepted with the provision that they obtain EMT-Basic certification before starting clinical rotations during the first semester of advanced course work. Students are accepted for advanced course work beginning in the Fall semester at Taylor and in the Spring semester at Temple.

A completed advanced application portfolio must be submitted according to deadlines established by the EMSP Department. The portfolio must include:

1. An assessment score or documentation of exemption (THEA, COMPAS, etc.).
2. Results of the Department's comprehensive EMT-Basic examination. Students who successfully complete EMSP 1501 from Temple College are exempt from taking this examination and may substitute their score on the EMSP 1501 final examination.
3. Verification of immunization against tetanus, diphtheria, mumps, measles, rubella, varicella, and hepatitis B.
4. Results from a tuberculosis skin test or chest x-ray performed within the last 12 months.
5. Documentation of high school graduation or a GED.
6. Copies of all relevant academic transcripts: high school, college or university, military service schools, other (proprietary schools).
7. Documentation of EMT-Basic certification. Students who are currently enrolled in an EMT-Basic course or who have completed EMT-Basic course work and are engaged in the credentialing process should provide a statement to this effect.
8. A resume or curriculum vitae showing work history with emphasis on EMS experience.

After a completed application portfolio is on file, an interview with at least one member of the EMSP faculty will be scheduled. Letters regarding admission status will be mailed within two weeks of interviews. If an application is rejected, the applicant may request a hearing before the Department Chairman. Requests must be submitted in writing and must include the reasons why the application should be reconsidered.

The number of students in the program is limited by spaces available for clinical experience in affiliated hospitals and EMS provider organizations. Competitive selection of students may become necessary if the number of applicants exceeds the number of seats available. In this event, a committee consisting of the Medical Director and EMSP faculty will review applicants. Factors that may be considered should competitive selection become necessary include:

1. Previous academic performance.
2. Comprehensive departmental EMT-Basic exam scores (or scores on the EMSP 1501 comprehensive final examination).
3. Interview results.
4. Prior work experience in EMS.
5. Temple College service area residency status.
6. Employment by one of the Department's clinical affiliates

UNIFORMS AND OTHER SUPPLIES

Students enrolled in EMSP clinical courses must purchase uniforms consisting of black "pro-tuff" style pants, black boots, black belt, and a white uniform shirt. Purchase of a stethoscope also is required. The cost of clinical uniforms and equipment is not included in any College fees.

PROFESSIONAL LIABILITY INSURANCE

Students will be assessed a professional liability insurance fee when they enroll in their first EMSP clinical course during an academic year. This fee will cover the cost of malpractice insurance coverage for the remainder of that academic year.

STUDENT EMPLOYMENT

The decision to work while enrolled in the EMS program rests with the individual student. While students may be employed in or volunteer in the clinical setting outside of regular instructional hours, they may count time and patient care procedures toward completion of course requirements only if they are functioning in the capacity of a student on a scheduled clinical rotation.

The EMSP Department cannot guarantee that all required clinical rotations will be available at times outside of the hours of a student's regular employment. If a clinical rotation required for successful completion of the course in which a student is enrolled is allowed only during a period of time when a student is engaged in his/her regular employment, the student will be required to arrange time off from work to complete the rotation.

STUDENT TRAVEL POLICY

A significant portion of the rotations must take place at clinical sites that provide access to larger numbers of patients presenting common problems encountered in the delivery of emergency care. Temple College and the EMSP Department assume no responsibility for expenses incurred as a result of travel or transportation that must be arranged to satisfy course requirements.

BACKGROUND TESTING POLICY

Clinical sites may require a criminal background check and or drug screen testing prior to beginning clinical rotations. If the student does not meet the standards set by the clinical site, the student will not be allowed to attend or complete the clinical at that site.

PROMOTION

Once the student is accepted into advanced EMSP course work, it is expected that he or she will continue to progress directly to the next semester's courses. To do this, the student must:

1. Have completed all previously required EMSP courses with a grade of "C" or better.
2. Have satisfied the competency requirements for all previously required EMSP courses.
3. Maintain good academic standing according to Temple College's Minimum Academic Standards, Scholastic Probation, and Scholastic Suspension policies.
4. Meet all general Temple College requirements and be approved for registration.

The following grading scale applies to all EMSP courses:

Numerical Value	Letter Grade	Points
89.5-100	A	4.0
80.5-89.4	B	3.0
79.5-80.4	C	2.0
69.5-79.4	D	1.0
below 69.5	F	0.0

Instruction in EMSP course work is competency-based. Although minimum clock hour requirements for didactic instruction, clinical rotations, and field internship have been established, successful completion depends on the student's demonstrating proficiency in the knowledge, skills, and personal behaviors/attitudes required of an entry-level EMS professional. Paramedic students complete a field internship under the supervision of experienced preceptors. They must demonstrate the ability to apply and integrate the knowledge, skills, and personal behaviors/attitudes of an entry-level Paramedic and must receive a final evaluation of entry-level competency from their assigned preceptor(s). Paramedic students also must successfully complete a comprehensive written exit examination and a clinical simulation/oral examination conducted at the end of the final semester.

CERTIFICATION AND LICENSURE

Students who successfully complete prescribed EMSP course work are eligible to take NREMT examination at the appropriate level and to apply for Texas Department of State Health Service's (DSHS) certification or licensure.

The NREMT administers a separate process from the one used by Temple College for determining whether accommodations for disabilities will be granted during the certification examination process. Eligibility is evaluated on a case-by-case basis. Therefore, a student who receives an accommodation during a course taught at Temple College has no guarantee of receiving an accommodation for the NREMT certification examination.

The nature of EMS duties requires restrictions to be placed on credentialing of persons with criminal histories. Applicants with criminal histories who wish to take the NREMT examination or be certified or licensed by DSHS are reviewed by those agencies on a case-by-case basis. Therefore, the EMSP Department is not able to advise a student with a criminal history if he/she will be eligible for certification and/or licensure upon course completion. Questions regarding certification or licensure of applicants with criminal histories should be directed to the Texas Department of State Health Services or the National Registry of EMT's.

Credentialing requirements, procedures, and fees vary significantly from state to state. It is the responsibility of a student who anticipates practicing in another state to contact the appropriate agency regarding credentialing or reciprocity procedures.

**LEVEL I - CERTIFICATE (TSI WAIVED)
EMT-Intermediate**

Fall Semester

BIOL 2404	Introduction to Human Anatomy and Physiology*	4
EMSP 1501	EMT-Basic	5
EMSP 1160	Clinical—EMS	1
	Total	10

Spring Semester

EMSP 1438	Introduction to Advanced Practice	4
EMSP 2348	Emergency Pharmacology	3
EMSP 1356	Patient Assessment and Airway Management ...	3
EMSP 1162	Clinical—EMS	1
	Total	11

Summer Semester

EMSP 1355	Trauma Management	3
EMSP 1263	Clinical—EMS	2
	Total	5
	GRAND TOTAL	26

* BIOL 2401 may be substituted for BIOL 2404

**LEVEL II - CERTIFICATE OF COMPLETION (TSI REQUIRED)
Paramedic**

Fall Semester

BIOL 2404	Introduction to Human Anatomy and Physiology*	4
EMSP 1501	EMT-Basic	5
EMSP 1160	Clinical—EMS	1
	Total	10

Spring Semester

EMSP 1438	Introduction to Advanced Practice	4
EMSP 2348	Emergency Pharmacology	3
EMSP 1356	Patient Assessment and Airway Management ...	3
EMSP 1162	Clinical—EMS	1
	Total	11

Summer Semester

EMSP 1355	Trauma Management	3
EMSP 1263	Clinical—EMS	2
EMSP 2544	Cardiology	5
	Total	10

Fall Semester

EMSP 2434	Medical Emergencies	4
EMSP 2430	Special Populations	4
EMSP 2260	Clinical—EMS	2
	Total	10

Spring Semester

EMSP 2143	Assessment Based Management	1
EMSP 2338	EMS Operations	3
EMSP 2135	Advanced Cardiac Life Support.....	1
EMSP 1147	Pediatric Advanced Life Support	1
EMSP 1149	Pre-Hospital Trauma Life Support	1
EMSP 2460	Clinical—EMS	4
	Total	11
	GRAND TOTAL	52

* BIOL 2401 may be substituted for BIOL 2404

ASSOCIATE OF APPLIED SCIENCE DEGREE
Emergency Medical Services

Fall Semester

BIOL 2401	Human Anatomy and Physiology I	4	
EMSP 1501	EMT-Basic	5	
EMSP 1160	Clinical—EMS	1	
	Total	10	

Spring Semester

BIOL 2402	Human Anatomy and Physiology II	4	
EMSP 1438	Introduction to Advanced Practice	4	
EMSP 2348	Emergency Pharmacology	3	
EMSP 1356	Patient Assessment and Airway Management...	3	
EMSP 1162	Clinical—EMS	1	
	Total	15	

Summer Semester

EMSP 1355	Trauma Management	3	
EMSP 1263	Clinical—EMS	2	
EMSP 2544	Cardiology	5	
ITSE 1294	Information Technology in Health Care Occupations		2
PSYC 2301	General Psychology	3	
	Total	15	

Fall Semester

EMSP 2434	Medical Emergencies	4	
EMSP 2430	Special Populations	4	
EMSP 2260	Clinical—EMS	2	
ENGL 1301	Composition I	3	
	Humanities Elective	3	
	Total	16	

Spring Semester

EMSP 2143	Assessment Based Management	1	
EMSP 2338	EMS Operations	3	
EMSP 2135	Advanced Cardiac Life Support.....	1	
EMSP 1147	Pediatric Advanced Life Support	1	
EMSP 1149	PreHospital Trauma Life Support	1	
EMSP 2460	Clinical—EMS	4	
ENGL 2311	Technical Writing.....	3	
	Total	14	
	GRAND TOTAL	70	

EMERGENCY MEDICAL SERVICES PROFESSIONS

EMSP 1147: Pediatric Advanced Life Support (1:1-0-0)

A course in the management of the pediatric patient experiencing difficulties in medical and/or trauma related emergencies. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2143, 2135, 2338, 1149, 2460.

EMSP 1149: Pre-Hospital Trauma Life Support (1:1-0-0)

Intense skill development in emergency field management, systematic rapid assessment, resuscitation, packaging, and transportation of patients. Includes experience necessary to meet initial certification requirements. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2143, 2135, 1147, 2338, 2460.

EMSP 1160: Clinical-Emergency Medical Technology/Technician (1:0-0-5)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Corequisite: EMSP 1501. \$25 Clinical fee. Approximately \$71 liability insurance fee.

EMSP 1162: Clinical-Emergency Medical Technology/Technician (1:0-0-4)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: Formal acceptance into EMSP Program, EMSP 1501, 1160. Prerequisite or Corequisite: BIOL 2401 or 2404. Corequisites: EMSP 2348, 1438, 1162. \$50 Clinical fee. Approximately \$71 liability insurance fee if not paid previously during current academic year.

EMSP 1263: Clinical-Emergency Medical Technology/Technician (2:0-0-6)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: EMSP 2438, 1356, 1438, 1162. Corequisite: EMSP 1355. \$50 Clinical fee.

EMSP 1355: Trauma Management (3:2-2-0)

A detailed study of the knowledge and skills in the assessment and management of patients with traumatic injuries. Prerequisites: EMSP 2348, 1356, 1438, 1162. Corequisite: EMSP 1263. \$40 Micro Simulation fee.

EMSP 1356: Patient Assessment and Airway Management (3:2-2-0)

A detailed study of the knowledge and skills required to perform patient assessment and airway management. Prerequisites: Formal acceptance into EMSP Program, EMSP 1501, 1160. Prerequisite or corequisite: BIOL 2401 or 2404. Corequisites: EMSP 2348, 1438, 1162. \$40 Micro Simulation fee.

EMSP 1438: Introduction to Advanced Practice (4:3-2-0)

An exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital. Prerequisites: Formal acceptance into EMSP Program, EMSP 1501, 1160. Prerequisite or corequisite: BIOL 2401 or 2404. Corequisites: EMSP 1162, 1356, 2348.

EMSP 1501: Emergency Medical Technician-Basic (5:3-8-0)

Introduction to the level of Emergency Medical Technician (EMT)-Basic. Includes all skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. Corequisite: EMSP 1160. \$30 Micro Simulation fee.

EMSP 2135: Advanced Cardiac Life Support (1:1-0-0)

Skill development for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. Establishes a system of protocols for management of the patient experiencing cardiac difficulties. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2143, 2338, 1147, 1149, 2460.

EMSP 2143: Assessment Based Management (1:0-3-0)

The capstone course of the EMSP program. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2338, 2135, 1147, 1149, 2460. \$40 Micro Simulation fee.

EMSP 2260: Clinical-Emergency Medical Technology/Technician (2:0-0-8)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: EMSP 1355, 1263, 2544. Corequisites: EMSP 2430, 2434. \$50 Clinical fee. Approximately \$71 liability insurance fee if not paid previously during current academic year.

EMSP 2338: EMS Operations (3:2-2-0)

A detailed study of the knowledge and skills to safely manage the scene of an emergency. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2143, 2135, 1147, 1149, 2460.

EMSP 2348: Emergency Pharmacology (3:3-1-0)

A comprehensive course covering all aspects of the utilization of medications in treating emergency situations. Course is designed to complement Cardiology, Special Populations, and Medical Emergencies courses. Prerequisites: Formal acceptance into EMSP Program; EMSP 1501, 1160; Prerequisite or corequisite: BIOL 2401 or 2404. Corequisites: EMSP 1438, 1356, 1162.

EMSP 2430: Special Populations (4:3-2-0)

A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in nontraditional populations. Prerequisites: EMSP 1355, 1263, 2544. Corequisites: EMSP 2434, 2260.

EMSP 2434: Medical Emergencies (4:4-3-0)

A detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies. Prerequisites: EMSP 1355, 1263, 2544. Corequisites: EMSP 2430, 2260. \$40 Micro Simulation fee.

EMSP 2460: Clinical-Emergency Medical Technology/Technician (4:0-0-14)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: EMSP 2434, 2430, 2260. Corequisites: EMSP 2143, 2135, 1147, 1149, 2338. \$50 Clinical fee. Approximately \$71 liability insurance fee if not paid previously during current academic year.

EMSP 2544: Cardiology (5:4-4-0)

A detailed study of the knowledge and skills in the assessment and management of patients with cardiac emergencies. Prerequisites: EMSP 2348, 1356, 1438, 1162.

GEOGRAPHIC INFORMATION SYSTEMS

The Geographic Information System (GIS) program is designed to give students entry-level proficiency. The GIS program enables the student to develop the fundamental skills, knowledge, and experience which prepares the student for positions in the field of GIS. The program combines classroom lecture along with the hands-on experience to give the students practical knowledge of GIS. Students may pursue a Certificate of Completion or the Associate Degree.

Application software used in this program include ArcGIS® (ESRI), AutoCAD®, and Microsoft Office.

LEVEL I – CERTIFICATE (TSI WAIVED) Geographic Information Systems

First Semester

CRTG 1301	Cartography / Geography in GIS / GPS	3
CRTG 1311	Introduction to GIS	3
GEOG 1300	Principles of Geography	3
ITSC 1309	Integrated Software Applications I	3
Elective	Program Related	3
	Total Hours	15

Second Semester

CRTG 1321	Introduction to Raster-Based GIS.....	3
CRTG 2301	Data Acquisition and Analysis in GIS.....	3
GEOG 1301	Physical Geography	3
ITSW 1307	Introduction to Database	3
Elective	Program Related	3
	Total Hours	15
	Grand Total	30

ASSOCIATES OF APPLIED SCIENCE Geographic Information Systems

FIRST YEAR

First Semester

CRTG 1301	Cartography / Geography in GIS/GPS	3
CRTG 1311	Introduction to GIS	3
DFTG 1309	Basic Computer-Aided Drafting	3
ENGL 1301	Composition I.....	3
GEOG 1300	Principles of Geography	3
Elective	Program Related	3
	Total Hours	18

Second Semester

CRTG 2311	Geographic Information Systems (GIS) Applications	3
DFTG 2330	Civil Drafting	3
GEOG 1301	Physical Geography	3
ITSC 1309	Integrated Software Applications I	3
ITSW 1310	Introduction to Presentation Graphics Software	3
MATH 1316	Trigonometry or MATH 2412	3-4
	Total Hours	18-19

SECOND YEAR

Third Semester

CRTG 1291	Special Topics in Cartography	2
ENGL 2311	Technical and Business Writing	3
ITSW 1307	Introduction to Database	3
PHIL 2306	Introduction to Ethics (Business Emphasis)	3
Elective	Social/Behavioral Sciences	3
	Total Hours	14

Fourth Semester

ARTC 1392	Special Topics in Design and Visual Communications	3
CRTG 1321	Introduction to Raster-Based GIS.....	3
CRTG 2301	Data Acquisition and Analysis in GIS.....	3
CRTG 2380	Cooperative Education or Related Elective	3
ITSE 1331	Introduction to Visual BASIC Programming or ITSC 1313	3
Elective	Program Related	3
	Total Hours	18
	GRAND TOTAL	71-72

SUGGESTED ELECTIVES

AGCR 1303	Crop Science
AGCR 1319	Soil Science
AGMG 1311	Introduction to Agribusiness
ANTH 2346	Introduction to Anthropology
DFTG 2319	Intermediate Computer-Aided Drafting
DFTG 2332	Advanced Computer-Aided Drafting
ENVR 1101	Environmental Science Lab
ENVR 1301	Environmental Science
GEOG 1303	World Regional Geography
GEOG 2312	Economic Geography
GEOG 2389	Academic Cooperative
GEOL 1103	Physical Geology Laboratory
GEOL 1303	Physical Geology
HUMA 1302	Introduction to Humanities II
SRVY 1319	Introduction to Geographic Information Systems (GIS)
SRVY 2305	Geographic Information Systems Application
SRVY 2309	Computer Aided Mapping

GEOGRAPHIC INFORMATION SYSTEMS

AGCR 1303: Crop Science (3:2-4)

Fundamentals of the development, production, and management of field crops. Topics include the classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting. Lab fee \$24.

AGCR 1319: Soil Science (3:2-4)

Introduction to the physical, chemical, and biological properties of soils. Topics include the relationship between crops and soils, conservation of soil and water resources, and the economic use of fertilizer. Lab fee \$24.

AGMG 1311: Introduction to Agribusiness (3:2-4)

Introduction to agribusiness management, marketing, and sales in the free enterprise system. Topics include economic principles, finance, risk management, record keeping, budgeting, employee/ employer responsibilities, communications, human relation skills, and agricultural career opportunities. Lab fee \$24.

ARTC 1392: Special Topics in Design & Visual Communications (3:2-4)

A capstone course for the visual presentation of data in a clear and rational format using design principles. Lab fee \$24.

CRTG 1291: Special Topics in Cartography (2:2-2)

Topics address recently identified current events, skills, knowledge's, and/or attitudes and behaviors pertinent to the technology or occupation and relative to the professional development of the student. Lab fee \$24.

CRTG 1301: Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning System (GPS) (3:2-4)

Introduction to the principles of cartography and geography. Emphasis on global references systems and the use of satellites for measurements and navigation. Lab fee \$24.

CRTG 1311: Introduction to Geographic Information Systems (GIS) (3:2-4)

Introduction to basic concepts of vector GIS using several industry specific software programs including nomenclature of cartography and geography. Arc View GIS® software will be used. Lab fee \$24.

CRTG 1321: Introduction to Raster-Based Geographic Information Systems (GIS) (3:2-4)

Instruction in GIS data sets including raster-based information such as images or photographs, acquisitions of such data, and processing and merging with vector data. Lab fee \$24.

CRTG 1364: Practicum-Cartography (3:1-20)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

CRTG 2301: Data Acquisition & Analysis in Geographic Information Systems (GIS) (3:2-4)

Study of the management of geographic information, system life cycles, and costs and benefits. Topics include demographic management and institutional issues such as data providers, data management, combination of attribute and graphical data, information storage and access, Texas and national standards for spatial data; applications of GIS for demographic modeling and analysis. Lab fee \$24.

CRTG 2311: Geographic Information Systems (GIS) Applications (3:2-4)

Application of GIS technology to real workplace applications from public and private sector. Completion of Global Positioning Systems (GPS) fieldwork required for lab exercises. Lab fee \$24.

CRTG 2380: Cooperative Education – Cartography (3:1-20)

Career-related activities encountered in the student's area of specialization are offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

SRVY 1319: Introduction to Geographic Information Systems (GIS) (3:2-4)

A study of the theory of geographic information systems, including conceptual understanding and database development, terms, definitions, classifications, use and client requirements, and prevailing and applicable professional standards. Projects and procedures to establish maps based upon geographic information systems. Lab fee \$24.

SRVY 2305: Geographic Information Systems Applications (3:2-4)

A hands-on course with computer applications providing additional conceptual understanding of geographical information systems and practical applications using a variety of Geographical Information System Software. Lab fee \$24.

SRVY 2309: Computer Aided Mapping (3:2-4)

An intermediate to advanced level course designed to teach the student how to produce a survey map using appropriate software and coordinate geometry. Production of survey maps and plats, civil engineering design drawings and topographic maps utilizing coordinate geometry. Lab fee \$24.

MEDICAL LABORATORY TECHNOLOGY
Associate of Applied Science Degree
(Deactivated)

Students desiring admission to the Medical Laboratory Technology Program must meet the admission requirements at Temple College, have an interview and approval of the Program Director prior to registration, and be in good physical and mental health. Students are admitted to the Medical Laboratory Technology Program in the order in which they complete the application process.

All students will be required to purchase liability and health insurance prior to entering clinical practice. A pre-entry physical examination is required including a tuberculin skin test and hepatitis immunization. Proper dress attire will be adhered to in accord with each clinical practice site. The student will be required to sign a WOC (without compensation) form. This is a standard VA form indicating agreement to study and work in the student program at the VA without expecting remuneration from the Veterans' Administration. This is also a protection for the student in the event of injury on VA grounds.

There are fifteen spaces available for clinical practice in the affiliated hospital laboratories. Selection of students may become necessary in the event there are more students than space available. Selection is made almost entirely by academic standing by a committee composed of the Medical Director, Department Chair and Education Coordinator. Students must successfully pass a comprehensive exit examination before being allowed to write the national certification examination. The Program is accredited by N.A.A.C.L.S., 8410 West Bryn Mawr Avenue, Suite 670 Chicago, IL 60631-3415, phone number (713) 714-8880.

Credit for Previous Training

CERTIFIED LABORATORY ASSISTANT. Upon the presentation of the certificate confirming registry or the letter from the American society of Clinical Pathology Board of Registry informing the student of passing the registry exam, the student will be awarded 14 semester hours of credit toward an Associate of Applied Science Degree in Medical Laboratory Technology. Credit will be awarded to those individuals who have verified the following military laboratory specialty classifications: N.E.C. 8417, A.F.S.C. 90470, A.F.S.C. 4T031, M.O.S. 92B30, and 91 Kilo 30.

This credit will be posted during the first semester in residence following the presentation of the certificate to the Admissions and Records Office. The 14 semester hours credit will be awarded for the following courses:

MLAB 1101	Introduction to Clinical Laboratory Science
MLAB 2360	Clinical Medical Laboratory Technician
MLAB 2461	Clinical Medical Laboratory Technician
MLAB 2462	Clinical Medical Laboratory Technician
MLAB 2263	Clinical Medical Laboratory Technician

Credit of 8 semester hours will be awarded to those individuals who have verified the military laboratory specialty classification of M.O.S. 92 B 20, 91 Kilo 10, or 91 Kilo 20. This credit will be posted during the first semester in residence following the presentation of the certificate to the Admissions and Records Office. The 8 semester hour credits will be awarded for the following courses:

MLAB 1101	Introduction to Clinical Laboratory Science
MLAB 2360	Clinical Medical Laboratory Technician
MLAB 2461	Clinical Medical Laboratory Technician

Upon presentation of a valid ASCP or NCA Phlebotomy Technician Certification, the student may be awarded: PLAB 1223: Phlebotomy, PLAB 1160: Clinical Phlebotomy Technician, and MLAB 2163: Clinical Medical Laboratory Technician.

Award of these credits does not guarantee entry into the Medical Technology A.A.S. program.

ASSOCIATE OF APPLIED SCIENCE DEGREE
Medical Laboratory Technology
 (Deactivated)

FIRST YEAR

First Semester

MLAB 1101	Introduction to Clinical Laboratory Science	1
PLAB 1223	Phlebotomy	2
MATH 1332	Contemporary Mathematics I or MATH 1314 ..	3
MLAB 1415	Hematology	4
CHEM 1305	Introductory Chemistry I and CHEM1105 or CHEM 1311 and CHEM 1111	4
	Total	14

Second Semester

MLAB 1211	Urinalysis & Body Fluids	2
MLAB 1235	Immunology/Serology	2
MLAB 2434	Clinical Microbiology	4
MLAB 2401	Clinical Chemistry	4
MLAB 1231	Parasitology/Mycology	2
	Total	14

Summer I Semester

MLAB 2431	Immunoematology	4
	Total	4

Summer II Semester

MLAB 2360	Clinical Medical Laboratory Technician	3
	Total	3

SECOND YEAR

First Semester

ENGL 1301	Composition I	3
ITSE 1294	Special Topics in Computer Science	2
MLAB 2461	Clinical Medical Laboratory Technician	4
BIOL 1406	General Biology	4
ELECTIVE	Social/Behavioral Science	3
	Total	16

Second Semester

ENGL 2311	Technical and Business Writing or ENGL 1302 and SPCH 1311,1315, 1318, or 1321	3
MLAB 2462	Clinical Medical Laboratory Technician	4
BIOL 2421	Microbiology	4
ELECTIVE	Humanities/Fine Arts	3
	Total	14

Summer I Semester

MLAB 2263	Clinical Medical Laboratory Technician	2
MLAB 1271	Registry Review	2
	Total	4
	GRAND TOTAL	69

MEDICAL LABORATORY TECHNOLOGY
 (Deactivated)

MLAB 1101: Introduction to Clinical Laboratory Science (1:1-0)

An introduction to clinical laboratory science, including quality control, laboratory math, safety, basic laboratory equipment, laboratory settings, accreditation and certification.

MLAB 1211: Urinalysis and Body Fluids (2:2-1)

An introduction to urinalysis and body fluid analysis, including the anatomy and physiology of the kidney, and physical, chemical and microscopic examination of urine, cerebrospinal fluid, and other body fluids. Lab Fee: \$10.00

MLAB 1231: Parasitology/Mycology (2:2-1)

A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures. Lab Fee: \$10.00

MLAB 1235: Immunology/Serology (2:2-1)

An introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures.

Lab Fee: \$10.00

MLAB 1271: Registry Review (2:2-0)

An introduction to methods for effective study strategies, including review of notes, textbooks, and a means to identify areas of difficulty so that the student may be guided in his/her knowledge and directed towards those aspects of the subject that require additional effort. Students will be guided through systematic study and application exercises designed to help them synthesize the various disciplines that comprise medical laboratory activities. This course serves as a capstone experience.

MLAB 1415: Hematology (4:3-3)

Introduction to the theory and practical application of routine and special hematology procedures, both manual and automated; red blood cells and white blood cells maturation sequences, and normal and abnormal morphology and associated diseases. Included is coagulation theory, procedures, practical applications, and laboratory exercises which rely on commonly performed manual and semi-automated methods. Lab Fee: \$20.00

MLAB 2263: Clinical Medical Laboratory Technician (2:0-8)

A method of instruction providing detailed education, training, work-based experience, and direct patient/client care generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement are the responsibility of the College faculty. Course may be repeated if topics and learning outcomes vary.

MLAB 2360: Clinical Medical Laboratory Technician (3:0-13)

A method of instruction providing detailed education, training, work-based experience, and direct patient/client care generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement are the responsibility of the College faculty. Course may be repeated if topics and learning outcomes vary. Approximately \$20.00 Liability Insurance Fee.

MLAB 2401: Clinical Chemistry (4:3-3)

An introduction to the principles and procedures of various tests performed in Clinical Chemistry. Presents the physiological basis for the test, the principle and procedure for the test, and the clinical significance of the test results, including quality control and normal values. Also includes basic chemical laboratory technique, chemical laboratory safety, electrolytes and acid-base balance, proteins, carbohydrates, lipids, enzymes, metabolites, endocrine function, and toxicology.

Lab Fee: \$20.00

MLAB 2431: Immunohematology (4:3-3)

A study of blood antigens and antibodies. Performance of routine blood banking procedures, including blood group and RH typing, antibody screens, antibody identification, cross matching, elution, and absorption techniques. Lab Fee: \$20.00

MLAB 2434: Clinical Microbiology (4:3-3)

Instruction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, setup, identification, susceptibility testing, and reporting procedures. Lab Fee: \$20.00

MLAB 2461: Clinical Medical Laboratory Technician (4:0-16)

A method of instruction providing detailed education, training, work-based experience, and direct patient/client care generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement are the responsibility of the College faculty. Course may be repeated if topics and learning outcomes vary.

MLAB 2462: Clinical Medical Laboratory Technician (4:0-16)

A method of instruction providing detailed education, training, work-based experience, and direct patient/client care generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement are the responsibility of the College faculty. Course may be repeated if topics and learning outcomes vary.

PLAB 1223: Phlebotomy (2:2-1)

Skill development of the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, and accessioning. Lab Fee: \$10.00

NURSING
Associate of Applied Science Degree in Nursing

The two year Associate Degree in Nursing (ADN) program leads to an Associate of Applied Science degree and allows the graduate to apply to take the state licensing exam for registered nursing. Completion of the AAS degree in nursing does not guarantee admittance to the registered nurse license examination. Graduates will be required to answer questions about their drug, alcohol, psychiatric, and/or conviction history for determination of eligibility to take the licensing exam for registered nursing. Criminal background checks are now required on all graduates. Further information is available in the office of the ADN Department. The Associate Degree Nursing Program is fully accredited by the National League for Nursing Accreditation Commission, 212-363-5555, 61 Broadway, New York, NY 10006.

PHILOSOPHY

The philosophy of the Temple College Associate Degree Nursing program reflects the beliefs of the faculty and provides the foundation for the nursing program. The philosophy of the program complements the institution's mission statement by providing quality education to prepare ADN graduates who are capable of entry level employment in the diverse community served by Temple College. The purpose of the ADN program is to provide assistance in supplying the Central Texas area with qualified graduate nurses who are prepared to take the National Council Licensure Examination to become registered nurses.

The faculty recognizes the holistic nature of the individual with biological, psychological, and social dimensions. The biological dimension is represented by the physical being. The psychological dimension is represented by the mind. The social dimension is represented by the individual's relationships with others. These dimensions are interrelated to create the whole. Because of the interrelatedness of these dimensions, when one dimension changes, other dimensions may be affected.

The individual is understood to be a dynamic being with varying capacity to meet their needs. A need is that which is necessary, useful, or desirable to maintain life. Each individual has the right to be actively involved in a plan to meet their needs. When active involvement is not possible; the individual is entitled to assistance in a caring manner.

Nursing is a profession in which caring behaviors are provided by interaction with the client in response to actual or potential unmet needs. Caring behaviors are those practices that demonstrate the nurse's altruistic concern for the welfare of the client. Caring behaviors are integrated from both scientific and humanistic experiences. The five steps of the nursing process, assessment, diagnosis, planning, implementation, and evaluation, are used as the method of critical thinking to integrate scientific principles with humanistic concerns. The nurse provides caring behaviors by performing in the roles of provider of care, coordinator of care, and profession member. These roles may be performed in a variety of settings. The nurse is accountable for performance in these roles not only to one's self and the profession, but also to a local, national, and global society.

Nursing education consists of experiences both didactic and practicum, that develop the individual's potential to provide quality care. The foundation for these experiences is derived from scientific and humanistic concepts and principles. The faculty facilitates learning opportunities that provide the student exposure to knowledge, skills, technology, and belief systems necessary for professional nursing practice. These learning opportunities draw from and build on each other to provide progression in the development of nursing roles. Course work specific to nursing and the general core curriculum, as outlined by the College, comprises the formal education plan for the associate degree nursing student.

Learning is viewed as a continuing process involving cognitive, affective, and psychomotor domains. Learning in the nursing program is dependent on faculty-student interaction. The faculty has the responsibility for guiding the learner to experiences that will assist them in meeting the objectives of the nursing program. The student has the responsibility for acquiring the knowledge, values and skills necessary to meet the objectives of the nursing program. Both participants have the responsibility for creating and participating in a learning climate that fosters the maximum development of each individual's potential. This focus recognizes that learning beyond the formal educational setting is essential and learning does not stop when the learner completes the formal learning plan.

Therefore, the nursing curriculum incorporates the following concepts: the individual is a holistic being with varying capacity to meet their needs; nursing interacts with the individual in response to unmet needs by utilizing the nursing process to provide caring behaviors; the nurse performs in the roles of provider of care, coordinator of care, and profession member.

The role of the graduate associate degree nurse in the profession of nursing is to:

1. Display a commitment to the value of caring by delivering client-centered care;
2. Use the nursing process as a basis for critical thinking to integrate scientific and humanistic principles and concepts;
3. Act as a coordinator in organizing and facilitating quality client care;
4. Practice as a coordinator and provider of care in a variety of settings where policies and procedures are specified and guidance is available;
5. Communicate effectively in performance of professional roles;
6. Practice within the ethical and legal framework of nursing and be accountable for ensuring high standards of nursing practice;
7. Be a contributing member within the profession of nursing.

OBJECTIVES

On the basis of this philosophy, the faculty believe that the Temple College Associate of Applied Science nursing program graduate will:

1. Integrate scientific and humanistic concerns to provide caring behaviors through a variety of practices.
2. Determine the health status of clients from a holistic perspective.
3. Participate with clients to formulate client-centered nursing diagnoses, goals, and a plan of care to meet their holistic health needs, incorporating promotion, prevention, maintenance, and restoration.
4. Implement the nursing plan of care according to standards of practice.
5. Provide for the safety of self and others.
6. Incorporate culturally sensitive nursing care for a diverse population.
7. Participate with clients to evaluate their progress toward established goals.
8. Develop, implement, and evaluate individualized teaching-learning plans concerning promotion, prevention maintenance, and restoration of health.
9. Establish and maintain effective communication with clients, nurses, and other health care team members.
10. Establish priorities, organize and provide care for multiple clients.
11. Delegate aspects of care to appropriate health care providers commensurate with their educational preparation and experience.
12. Coordinate human and material resources to provide cost effective and quality care to meet health needs.
13. Collaborate with the client and other health care team members to meet the health needs of clients.
14. Refer clients to resources that facilitate continuity of care.
15. Assume professional responsibility and accountability.
16. Practice nursing within an ethical and legal framework, consistent with nursing practice standards as defined by professional and regulating organizations.
17. Act as an advocate to promote the provision of quality health care for clients.
18. Participate in activities that promote the development of self and nursing.
19. Use a critical thinking approach to analyze clinical data and current literature as a basis for decision making in nursing practice.
20. Participate in activities that promote the development of self and nursing.

ADMISSION TO THE ADN PROGRAM

Students desiring admission to the ADN program must:

1. Complete the Temple College admission procedure.
2. Complete the admission procedure for the ADN Department:
 - Schedule to take the nursing pretest. The Nursing Entrance Test (NET-RN) is the pre-entrance departmental aptitude test used by the ADN program. The pre-entrance examination will be given in February and March for the fall class. All **prerequisite** courses must be in progress or completed by the time of pre-test. Study guides for the NET-RN are available at the Temple College bookstore.
 - The **prerequisite** courses are: BIOL 2401, ITSE 1294, and PYSC 2301.
 - Complete an application from the ADN Department after taking the pre-entrance test.
 - Furnish official transcripts of **prerequisite** course grades and any courses that may apply to the ADN program. You must have a minimum of a "C" in every course. A minimum overall grade point average (GPA) of 2.5 (in all courses that apply toward the nursing curriculum) is required for admission to the ADN program. Biological Science courses must have been taken within the past ten years.

3. After satisfactory completion of the above admission process, applicants will be notified by letter of whether or not they were accepted into the program.
 - Note: Criminal background history checks may be required and/or administered at any time by Temple College or any healthcare facility associated with Temple College. Permission for the criminal background history check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.
4. After conditional acceptance to the program, the following must be completed:
 - A current physical examination (within six months prior to beginning the nursing program) verifying good physical and mental health with required immunizations. Note: Students shall receive a complete series of Hepatitis B vaccine prior to the start of direct patient care.
 - Provide written documentation of successful completion of a CPR course designed for health care providers (e.g., **Basic Cardiac Life Support for Health Care Providers** from the American Heart Association or **CPR for the Professional Rescuer** from the American Red Cross). No student will be permitted in the clinical setting without current documentation on file (must remain current throughout the ADN program).
5. In the event the application is rejected, the applicant may request a hearing before the ADN Admissions Committee. Such request is to be submitted in writing and include the reasons why the application should be reviewed.
6. All nursing students will be required to purchase professional liability insurance at the time of registration. Additional expenses incurred as part of the program are the responsibility of the student.

Note: Admission to Temple College does not constitute automatic acceptance into the nursing program. Admission to the nursing program is determined during the late spring for the fall semester. In the case of competitive admissions, requirements over and above the minimum may be necessary.

Applications will not be processed if any of the stated admission requirements are missing or incomplete.

Students seeking admission to the ADN program are admitted to the program on the basis of the following criteria with maximum point totals awarded as indicated:

- * GPA (only general education courses that apply to the ADN curriculum (5 points)
- * Number of general education credits that apply toward the ADN curriculum (3 points)
- * One or more courses taken at Temple College (1 point)
- * Temple College service area residency status (1 point)
- * Pre-Test Score (3 pts)

Point totals are then used to rank candidates into priority groups of I, II, III.

Admissions will be approved from within the priority groups with all criteria taken into consideration, not point totals alone. Any applicant scoring below priority grouping III will not be considered for admission. One point will be deducted from an applicant's point total if the applicant has failed any nursing course in another nursing program.

PROMOTION

Once a student is accepted into and begins the ADN program curriculum, it is expected that the student will continue to progress directly to the next semester's courses. In order to do this, the student must:

1. Have completed all previously required courses with a "C" grade (2.0 based on a 4.0 scale) or better;
2. Be concurrently enrolled in required non-nursing courses scheduled for that semester, or have previously passed these courses with a minimum grade of "C" (2.0);
3. Maintain good academic standing (See the College catalog, Minimum Academic Standards, Scholastic Probation, & Scholastic Suspension policies).
4. Meet all general Temple College requirements (be approved for registration).

Failure in any required nursing course indicates possibility of failure on the board exam. Therefore, no more than one course may be repeated during the program, due to failure and that course may be repeated only once.

In all nursing courses, the following grading scale will be used.

Numerical Value	Letter Grade	Points
100-93	A	4.0
92-85	B	3.0
84-75	C	2.0
Below 75	F	0

In all courses, both nursing and non-nursing, that count toward graduation, the minimum passing grade is a "C" or 2.0 on the 4.0 scale. Further grading criteria can be found in each course outline.

READMISSION TO THE ADN PROGRAM

Students may apply for readmission to the ADN program following their withdrawal or dismissal by submitting a new application to the ADN Department office. Students seeking readmission who have successfully completed any nursing courses more than three years prior to readmission will be required to re-enroll in the nursing courses. All policies specified by Temple College for readmitting students will apply (See the College catalog section on readmission under the Application for Admission policy.) Applicants being readmitted to the first semester of nursing courses will be considered by the Admissions Committee using the same criteria as are used for new applicants. Applicants being considered for readmission to other semesters in the nursing curriculum will be considered on a space available basis. The Admissions Committee will review the applicant's record and make recommendations as to placement in the program.

A student who was dismissed for an unsatisfactory grade in a nursing course (class and/or clinical) will be asked to discuss the problems that led to dismissal and actions that have been taken that would enable him/her to reasonably expect success in completing the program, passing the licensing exam, and contributing to the profession of nursing. After a second nursing program failure or withdrawal, a student is not eligible for readmission.

TRANSFER TO THE TC ADN PROGRAM FROM ANOTHER NURSING PROGRAM

Transfer students who have been enrolled in an approved RN level nursing school will be considered by the Admissions Committee for admission on a space available basis. Also, all policies specified by Temple College for accepting transfer students will apply (see the College catalog section on transfer students under Application for Admission.)

Required non-nursing courses will be evaluated for transferability by the Division Director of Enrollment Management and the Division Director of Nursing. The student must arrange for all official transcripts to be sent directly to the Admissions and Records office for any non-nursing course they wish to have considered for transfer. In addition, if a course description is not readily available in the Admissions and Records office, the student will be responsible for providing a copy of the appropriate course description prior to the final determination. An official copy of the transcript and course description should also be sent to the ADN Department office.

Required nursing courses will be evaluated for transferability by the Division Director of Nursing, in association with the Division Director of Enrollment Management. The student must arrange for an official transcript to be sent directly to the Admissions and Records office. In addition, the student will be responsible for providing a copy of the course description, syllabus, objectives, and an official transcript to the Division Director of Nursing. Prior to the final determination, the Division Director of Nursing may request the student to provide further information and may consult with specific faculty regarding the acceptability of potential nursing transfer courses into the Temple College curriculum. Upon final determination of the transferability of any courses, the Division Director of Nursing will approve the curriculum plan to be followed by the transfer student. Any student transferring into the nursing program from another nursing program will enter Temple College ADN program with only one attempt to complete the program.

PRIORITIZATION LISTING FOR READMISSION AND TRANSFERS

Request for readmission or transfer students will be prioritized as follows:

1. First priority: Former Temple College students with a passing grade in previous nursing courses.
 2. Second priority: Transfer students with passing grades in previous nursing courses.
 3. Third priority: Former Temple College students with a previous nursing course failure.
 4. Fourth priority: Transfer students with a previous nursing course failure
- Within each priority group, preference is given based on nursing GPA.

REQUIREMENTS FOR ASSOCIATE OF APPLIED SCIENCE DEGREE IN NURSING

In order to graduate from Temple College and receive the Associate of Applied Science degree in Nursing, the student must meet the following requirements:

1. Six semester hours of English: ENGL 1301 and 2311. ENGL 1302 may be used instead of ENGL 2311 if the student also takes three hours of Speech: SPCH 1311, 1315, 1318, or 1321.
2. Six semester hours in behavioral sciences: PSYC 2301 and PSYC 2314.
3. Three semester hours in fine arts or humanities to be selected from the disciplines of art, history, literature, music, philosophy (excluding logic), drama/theater and humanities.
4. Eight semester hours of anatomy and physiology: BIOL 2401 and BIOL 2402. Two semester hours of computer information technology: ITSE 1294. Four semester hours of microbiology: BIOL 2421. For any variation from these prescribed requirements to be counted toward graduation, a written statement to this effect, signed by the Division Director of Nursing and the Vice President of Educational Services must be on file in the student's record folder.
5. Seventy-two semester hours of course credit, exclusive of developmental courses. All prescribed courses must be completed with a "C" grade or better. Included in the 72 semester hours of course work must be all of the required nursing courses, or their equivalent, for a total of 43 hours of credit. For any variation from these prescribed requirements to be counted toward graduation, approval must be given by the Division Director of Nursing.
6. The student must have completed the last 16 semester hours of the work toward graduation at Temple College or have earned a total of 32 semester hours of TC work applicable toward the degree requirements.
7. All candidates will be required to pass an exit level exam before graduating from the Associate Degree Nursing program.
8. Completion of the Application for Graduation by deadline date.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
Nursing (ADN Program)**

NOTE: The student must earn a "C" or higher grade in each course specified by title.

Prerequisites

BIOL 2401	Human Anatomy and Physiology I	4
ITSE 1294	Special Topics in Computer Science	2
PSYC 2301	General Psychology	3
	Total	9

FIRST YEAR

Fall Semester

BIOL 2402	Human Anatomy and Physiology II	4
RNSG 1201	Pharmacology	2
RNSG 1360	Clinical-Nursing I –Registered Nurse Training ...	3
RNSG 1205	Nursing SkillsI	2
RNSG 1309	Introduction to Nursing	3
	Total	14

Spring Semester

PSYC 2314	Lifespan Growth and Development	3
RNSG 1431	Principles of Clinical Decision-Making	4
RNSG 1146	Legal & Ethical Issues for Nurses.....	1
RNSG 1110	Introduction to Community-based Nursing	1
RNSG 1361	Clinical-Nursing II-Registered Nurse Training ...	3
	Total	12

Summer Semester I

BIOL 2421	Microbiology	4
	Total	4

Summer Semester II

RNSG 2213	Mental Health Nursing	2
RNSG 1262	Clinical-Nursing III-Registered Nurse Training ..	2
	Total	4

SECOND YEAR

Fall Semester

ENGL 1301	Composition I.....	3
Elective	Fine Arts/Humanities.....	3
RNSG 1447	Concepts of Clinical Decision-Making	4
RNSG 2201	Care of Children & Families	2
RNSG 2360	Clinical-Nursing IV-Registered Nurse Training...	3
	Total	15

Spring Semester

ENGL 2311	Technical & Business Writing** or ENGL 1302 Composition II* and SPCH 1311 Introduction to Speech Communications*	3-6
RNSG 1251	Care of the Childbearing Family	2
RNSG 2441	Advanced Concepts of Clinical Decision-Making	4
RNSG 2221	Management of Client Care	2
RNSG 2361	Clinical-Nursing V-Registered Nurse Training....	3
	Total	14-17
	Total Hours.....	72-75

*Recommended for students intending to pursue a BSN degree shortly after completing the ADN program.

**Course includes speech component.

Exit Exam – All candidates will be required to pass an exit level exam before graduating from the Associate Degree Nursing Program.

BRIDGING PROGRAM (LVN TO ADN)

This program prepares the Licensed Vocational Nurse to make the transition into the professional nursing role. Upon completion of this program graduates receive an Associate of Applied Science degree which qualifies them to apply for the state licensing examination for registered nursing. Graduates will be required to answer questions about their drug, alcohol, psychiatric, and/or conviction history for determination of eligibility to take the licensing exam for registered nursing. Criminal background checks are now required on all graduates. Further information is available in the office of the ADN department. NLNAC is an additional resource for program information, 212-363-5555, 61 Broadway, New York, NY 10006.

ADMISSION TO THE LVN BRIDGING PROGRAM

Students desiring admission to the LVN Bridging program must:

1. Complete the Temple College admission procedure.
2. Must have completed the following Prerequisite courses: BIOL 2401, BIOL 2402, BIOL 2421, ITSE 1294, PSYC 2301, PSYC 2314, and VNSG 1323.
3. Complete the admission procedure in the ADN Department.
 - Must be a graduate of a Texas VN program or out-of-state NLN accredited program; and hold a valid Texas VN license in good standing.
 - Must have a grade of "C" or better in all VN courses and any course, which applies toward the ADN curriculum.
 - If the applicant graduated more than two years before admission, the applicant must have had nursing practice experience of six months full time or one year part time within the last two years. Part time is defined as a minimum of 800 hours per year. A letter from the employer(s) will be required to verify work experience.
 - Complete an application from the ADN Department.
 - Furnish official transcripts of prerequisite course grades and any courses that may apply to the ADN program. Must have a minimum of a "C" in every course. A minimum overall grade point average (GPA) of 2.5 (in all courses that apply toward the nursing curriculum) is required for admission to the ADN program. Biological science courses must have been taken within the past 10 years.
4. After satisfactory completion of the above admission process, applicants will be notified by letter of whether or not they were accepted into the program.
 - Note: Criminal background history checks may be required and/or administered at any time by Temple College or any healthcare facility associated with Temple College. Permission for the criminal background history check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.

5. After conditional acceptance to the program, the following must be completed:
 - A current physical examination (within six months prior to beginning the nursing program) verifying good physical and mental health and required immunizations. Note: Students shall receive a complete series of Hepatitis B vaccine prior to the start of direct patient care.
 - Written documentation of successful completion of a CPR course designed for health care providers (e.g., **Basic Cardiac Life Support for Health Care Providers** from the American Heart Association or **CPR for the Professional Rescuer** from the American Red Cross). No student will be permitted in the clinical setting without current documentation on file (must remain current throughout the ADN program).
6. In the event the application is rejected, the applicant may request a hearing before the ADN Admissions Committee. Such request is to be submitted in writing to include the reason why the application should be reviewed.
7. All nursing students will be required to purchase professional liability insurance at the time of registration. Additional expenses incurred as part of the program are the responsibility of the student.

***Admission to Temple College does not constitute automatic acceptance into the nursing program. Admission to the LVN Bridging Program is determined in the early spring. In the case of competitive admissions, requirements over and above the minimum may be necessary.**

Policies on promotion, readmission, and transfer apply to both LVN Bridging and ADN students.

Applications will not be processed if any of the stated admission requirements are missing or incomplete.

Students seeking admission to the LVN Bridging program are admitted to the program on the basis of the following criteria, with maximum point totals awarded as indicated:

- * GPA, only general education courses that apply to the ADN curriculum (5 points)
- * Number of general education credits that apply to the ADN curriculum (3 points)
- * Graduate of Temple College Vocational Nursing Program (1 point)
- * Temple College service area residency status (1 point)

Point totals are then used to rank candidates into priority groupings of I, II, or III. Admissions will be approved from within the priority groups with all criteria taken into consideration, not point totals alone. Any applicant scoring below priority grouping III will not be considered for admission.

One point will be deducted from an applicant's point total if the applicant has failed any nursing course in another nursing program.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
Nursing (LVN Bridging Program)
(Must be a Licensed Vocational Nurse)**

Prerequisites

BIOL	2401	Human Anatomy and Physiology I	4
BIOL	2402	Human Anatomy and Physiology II	4
BIOL	2421	Microbiology	4
ITSE	1294	Special Topics in Computer Science	2
PSYC	2301	General Psychology	3
PSYC	2314	Lifespan Growth and Development	3
VNSG	1323	Basic Nursing Skills	3
		Total	23

Summer Semester I

RNSG	2307	Transition to Nursing Practice	3
RNSG	1162	Clinical-Nursing-Registered Nurse Training.....	1
		Total	4

Summer Semester II

RNSG	2213	Mental Health Nursing	2
RNSG	1262	Clinical-Nursing III-Registered Nurse Training ..	2
		Total	4

SECOND YEAR

Fall Semester

ENGL 1301	Composition I.....	3
Elective	Humanities/Fine Arts.....	3
RNSG 1447	Concepts of Clinical Decision-Making	4
RNSG 2201	Care of Children & Families	2
RNSG 2360	Clinical-Nursing IV-Registered Nurse Training...	3
	Total	15

Spring Semester

ENGL 2311	Technical & Business Writing** or ENGL 1302 Composition II* and SPCH 1311 Introduction to Speech Communication*	3-6
RNSG 2441	Advanced Concepts of Clinical Decision-Making	4
RNSG 1251	Care of the Childbearing Family.....	2
RNSG 2221	Management of Client Care	2
RNSG 2361	Clinical-Nursing V-Registered Nurse Training....	3
	Total	17-20
	Total Hours.....	63-66

*Recommended for students who intend to pursue a BSN degree shortly after completing the ADN program.

**Course includes speech component

NURSING

The two-year associate degree in nursing (ADN) program leads to an associate of applied science degree and allows the graduate to apply to take the state licensing exam for registered nursing.

RNSG 1110: Introduction to Community-Based Nursing (1:1-0)

Overview of the delivery of nursing care in a variety of community-based settings; application of systematic problem-solving processes and critical thinking skills focusing on the examination of concepts and theories relevant to community-based nursing; and development of judgment, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the followings courses: BIOL 2402, RNSG 1309, RNSG 1201, RNSG 1360, RNSG 1205. Corequisites: PSYC 2314, RNSG 1431, RNSG 1361, RNSG 1146. R, W, M.

RNSG 1146: Legal and Ethical Issues for Nurses (1:1-0)

Study of the laws and regulations related to the provision of safe and effective professional nursing care; attention given to the development of a framework for addressing ethical issues; and topics to include confidentiality, The Nursing Practice Act, professional boundaries, ethics, and health care legislation. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2402, RNSG 1201, RNSG 1205, RNSG 1309, RNSG 1360. Corequisites: PSYC 2314, RNSG 1431, RNSG 1361, RNSG 1110. R, W, M.

RNSG 1201: Pharmacology (2:2-0)

Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics include the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, ITSE 1294, PSYC 2301. Corequisites: BIOL 2402, RNSG 1309, RNSG 1360, RNSG 1205. R, W, M.

RNSG 1205: Nursing Skills I (2:1-4)

Study of the concepts and principles essential for demonstrating competence in the performance of nursing procedures based on the nursing process. Topics include knowledge, judgment, psychomotor and communication skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, ITSE 1294, PSYC 2301. Corequisites: BIOL 2402, RNSG 1309, RNSG 1201, RNSG 1360. \$64.00 Simulation Fee. R, W, M.

RNSG 1309: Introduction to Nursing (3:3-0)

Overview of nursing, nursing process, and the role of the associate degree nurse as a provider of holistic care, coordinator of care, and member of a profession. Topics include knowledge, judgment, communication, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, ITSE 1294, PSYC 2301. Corequisites: BIOL 2402, RNSG 1201, RNSG 1360, RNSG 1205. R, W, M.

RNSG 1360: Clinical-Nursing I-Registered Nurse Training (3:0-12)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, ITSE 1294, PSYC 2301. Corequisites: BIOL 2402, RNSG 1309, RNSG 1201, RNSG 1205. Approximately \$20.00 liability insurance fee. R, W, M.

RNSG 1361: Clinical-Nursing II-Registered Nurse Training (3:0-14)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2402, RNSG 1309, RNSG 1201, RNSG 1360, RNSG 1205. Corequisites: PSYC 2314, RNSG 1431, RNSG 1146, RNSG 1110. R, W, M.

RNSG 1262: Clinical-Nursing III-Registered Nurse Training (2:0-6)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2421, PSYC 2314, RNSG 1431, RNSG 1146, RNSG 1361, RNSG 1110. Corequisite: RNSG 2213. R, W, M.

RNSG 1431: Principles of Clinical Decision-Making (4:3-4)

Examination of selected principles related to the development of the professional nurse as a provider of holistic care, coordinator of care, and member of a profession. Emphasis on clinical decision making for clients in medical-surgical settings experiencing health problems involving fluid and electrolytes, perioperative care, pain; respiratory disorders, peripheral vascular disorders, immunologic disorder, and infectious disorders. Discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2402, RNSG 1309, RNSG 1201, RNSG 1360, RNSG 1205. Corequisites: PSYC 2314, RNSG 1361, RNSG 1146, RNSG 1110. \$64.00 Simulation Fee. R, W, M.

RNSG 1447: Concepts of Clinical Decision-Making (4:3-4)

Integration of previous knowledge and skills into the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. Emphasis on clinical decision-making, for clients in medical-surgical settings experiencing health problems involving gastrointestinal disorders, endocrine and metabolic disorders, reproductive and sexual disorders, musculoskeletal disorders, eye-ear-nose-throat disorders and integumentary disorders. Discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: RNSG 2213, RNSG 1262. Corequisites: ENGL 1301, RNSG 2201, RNSG 2360, 3 credits Fine Arts/Humanities elective. \$64.00 Simulation Fee. \$35.00 assessment test fee. R, W, M.

RNSG 2201: Care of Children and Families (2:2-1)

Study of concepts related to the roles of the nurse in the provision of holistic nursing care for children and their families, emphasizing clinical decision-making, knowledge, judgment, communication, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: RNSG 2213, RNSG 1262. Corequisites: ENGL 1301, RNSG 1447, RNSG 2360, 3 credits Fine Arts/Humanities elective. \$16.00 lab fee. R, W, M. RNSG 2221: Management of Client Care (2:2-0)

Exploration of leadership and management principles applicable to the role of the nurse as a provider of holistic care, coordinator of care, and member of a profession. Includes application of clinical decision-making, knowledge, judgment, communication, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: ENGL 1301, RNSG 1447, RNSG 2201, RNSG 2360. Corequisites: ENGL 2311, RNSG 2441, RNSG 2361, RNSG 1251. R, W, M.

RNSG 2213: Mental Health Nursing (2:2-1)

Principles and concepts of mental health, psychopathology, and treatment modalities and the role of the nurse related to the holistic nursing care of clients and their families utilizing the nursing process. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2421, PSYC 2314, RNSG 1431, RNSG 1146, RNSG 1361, RNSG 1110. Corequisite: RNSG 1262. \$16 lab fee. R, W, M.

RNSG 1251: Care of the Childbearing Family (2:2-1)

Study of concepts related to the provision of nursing care for childbearing families. Topics may include selected complications. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: ENGL 1301, 3 semester credit hours in Fine Arts/Humanities, RNSG 1447, RNSG 2360, RNSG 2201. Corequisites: ENGL 2311, RNSG 2441, RNSG 2361,

RNSG 2221. \$16 lab fee. R, W, M.

RNSG 2441: Advanced Concepts of Clinical Decision-Making (4:3-3)

Application of advanced concepts and skills for development of the professional nurse's roles in complex client/nursing situations. Emphasis on clinical decision-making for clients in medical-surgical settings experiencing health problems involving cardiovascular disorders, neurological disorders, liver, biliary and pancreatic disorders, renal and urinary disorders, hematologic disorders, and cancer. Focus given to knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: RNSG 1447, RNSG 2360, RNSG 2201. Corequisites: ENGL 2311, RNSG 2361, RNSG 1251, RNSG 2221. \$48.00 lab fee. \$30.00 exit exam fee. R, W, M.

RNSG 2360: Clinical-Nursing IV –Registered Nurse Training (3:0-14)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: A grade of "C" or higher in each of the following courses: RNSG 2213, RNSG 1262. Corequisites: ENGL 1301, 3 SCH Fine Arts/Humanities elective, RNSG 1447, RNSG 2201. Approximately \$20.00 liability insurance fee. R, W, M

RNSG 2361: Clinical-Nursing V –Registered Nurse Training (3:0-14)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: A grade of "C" or higher in each of the following courses: ENGL 1301, 3 SCH Fine Arts/Humanities, RNSG 1447, RNSG 2201, RNSG 2360. Corequisites: ENGL 2311, RNSG 2441, RNSG 2221, RNSG 1251. R, W, M

LVN BRIDGING PROGRAM

This program prepares the Licensed Vocational Nurse to make the transition into the professional nursing role. Upon completion of this program graduates receive the Associate of Applied Science degree, which qualifies them to apply for the state licensing examination for registered nursing.

RNSG 1162: Clinical-Nursing-Registered Nurse Training (1:0-4)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, BIOL 2402, BIOL 2421, ITSE 1294, PSYC 2301, PSYC 2314 and VNSG 1323. Corequisite: RNSG 2307. R, W, M. Approximately \$20.00 liability insurance fee. R,W,M.

RNSG 2307: Transition to Nursing Practice (3:3-1)

Introduction to selected concepts related to the role of the associate degree nurse as a provider of care, coordinator of care, and member of a profession. Review of trends and issues impacting nursing and health care today and in the future. Topics include knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisites: A grade of "C" or higher in each of the following courses: BIOL 2401, BIOL 2402, BIOL 2421, ITSE 1294, PSYC 2301, PSYC 2314 and VNSG 1323. \$16.00 lab fee. Corequisite: RNSG 1162.

VOCATIONAL NURSING

This one-year Vocational Nursing (VN) program is designed to prepare students with the experience and education to function in a variety of health care settings under the supervision of a registered nurse. Upon successful completion of the program, a certificate is awarded by Temple College, and allows graduates to apply to take the state licensing examination for vocational nursing. Completion of the VN program does not guarantee admittance to the vocational nursing licensure examination. Graduates will be required to answer questions about their drug, alcohol, psychiatric, and/or conviction history for determination of eligibility to take the licensing examination for vocational nursing. Further information is available in the office of the VN department.

PHILOSOPHY

The philosophy of the Temple College Vocational Nursing program reflects the beliefs of the faculty and provides the foundation for the nursing program. The philosophy of the program complements the institution's mission statement by providing quality education to prepare VN graduates who are capable of entry-level employment in the diverse community served by Temple College. The purpose of the VN program is to provide assistance in supplying the Central Texas area with qualified vocational nurses who are prepared to take the National Council Licensure Examination to become licensed vocational nurses.

The Vocational Nursing Faculty supports the following beliefs:

Individual - Each individual is recognized as a holistic being with physical, psychological, socio-cultural and spiritual dimensions which are interrelated to create a whole. Individuals continuously adapt to an ever changing environment while experiencing varying degrees of health throughout the lifespan. Therefore, each person has the right to make positive lifestyle choices for his/her health to maintain optimum quality of life. These lifestyle choices must focus on meeting the basic needs that are essential to life and progress toward self-actualization. Each individual has the right and responsibility to be given treatment in a caring manner and to be actively involved in planning this care to meet their individual needs.

Society - A society is formed by the networking of individuals, families, and communities. Each person brings to this group their own perceptions, values, attitudes, skills and knowledge. In a society that is dynamic and culturally diverse, everyone benefits when individuals work together to form common goals that meet the needs of all members.

Nursing - Nursing synthesizes knowledge from both the arts and the sciences to form the theoretical base for the profession. It combines the art of caring and nurturing with scientific principles and skills in providing preventative, therapeutic, and rehabilitative care for individuals and families. The nursing process is used as a basis for providing a systematic decision making approach in providing holistic care to clients in various stages of the life cycle. As nurses increase their levels of expertise, they demonstrate competency in the roles of provider of care, coordinator of care, and member of a profession according to their levels of responsibility.

Vocational nursing - The vocational nurse is an integral component of the health care team. Each nurse provides direct basic care for multiple clients in structured settings and assists in the coordination of care in collaboration with other health care professionals. These nurses recognize the role of nursing research in improving client care. Vocational nurses are accountable for their own actions and must provide a standard of practice that is within legal and ethical parameters. Each nurse must seek opportunities that promote personal and professional growth.

The teaching-learning process - Learning is defined as an interactive process demonstrated as a partnership that fosters professional growth. The teaching-learning process must be individualized and collaborative. The faculty must provide a curriculum that is continuously evaluated to meet the ever changing educational and technological needs of society. Faculty members must inspire excellence as they serve as role models and facilitators in providing learning experiences that target the learner's needs. The student must demonstrate responsibility for learning by actively participating in the learning process. Learning experiences proceed on a continuum from simple to complex.

Nursing education - All nursing education consists of nursing theory principles integrated with clinical experiences in varied health care settings. Nursing education empowers students to problem solve and use critical thinking skills to seek solutions to problems. Students from diverse cultural and educational backgrounds must be provided opportunities to develop the knowledge, attitudes, and skills necessary to become competent, caring, and legal-ethical members of the health care team. Quality nursing education must be provided in an environment conducive to helping students achieve their personal and professional goals.

Education as a lifelong process - Education is a process that enhances one's knowledge by building on experiences and skills. Therefore, the basic blocks for learning must be formed into a strong foundation so that learning can continue as a lifelong process. As each person acquires skills, knowledge, and legal-ethical growth, their educational goals may be attained for the present, but new ones should be formed for the future. Each person must learn to evaluate their need for continuing education to maintain a lifelong accountability in their educational journey.

ADMISSION TO THE VN PROGRAM

Students desiring admission to the Vocational Nursing program must meet the following requirements:

1. Complete the Temple College admission procedure.
2. Complete the admission procedure for the VN Department:
 - Schedule to take the nursing pre-test. The Nursing Entrance Test (NET-PN) is the pre-entrance departmental aptitude test used by the VN program. This test score is valid for one year. A passing composite score is required in order to be considered for acceptance by the VN program. This pre-entrance examination is given in November, December and January for the summer class. Study guides for the NET-PN are available in the Temple College bookstore. The NET-PN is given in the Testing Center, located in the Once College Centre.
 - Complete an application from the VN Department after taking the pre-entrance test.
 - Furnish evidence of an official high school transcript showing evidence of graduation or an official General Education Development Equivalency certificate.
 - If you have college credits that apply toward the VN curriculum, you must furnish official transcripts of all course work from these colleges or universities. Biological Science courses must have been taken within the past ten years.
3. After satisfactory completion of the above admission process, applicants will be notified by letter of whether or not they were accepted into the program.
 - Note: Criminal background history checks may be required and/or administered at any time by Temple College or any healthcare facility associated with Temple College. Permission for the criminal background history check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.
4. After conditional acceptance to the VN program, the following requirements must be completed:
 - A current physical examination (within six months prior to beginning the nursing program) verifying good physical and mental health with required immunizations. Note: Students shall receive a complete series of Hepatitis B vaccine prior to the start of direct patient care.
 - Provide written documentation of successful completion of a CPR course designed for health care providers (e.g., **Basic Cardiac Life Support for Health Care Providers** from American Heart Association or **CPR for the Professional Rescuer** from the American Red Cross). No student will be permitted in the clinical setting without current documentation on file (must remain current throughout the VN program).
5. In the event the application is rejected, the applicant may request a meeting with the VN Department Chairman. Such a request is submitted in writing and includes reasons why the application should be reviewed.
6. All nursing students will be required to purchase professional liability insurance at the time of registration. Additional expenses incurred as part of the program are the responsibility of the student.

Note: Admission to Temple College does not constitute automatic acceptance into the nursing program. Admission to the nursing program is determined during the early spring for the summer semester. In the case of competitive admissions, requirements over and above the minimum may be necessary.

Applications will not be processed if any of the stated admission requirements are missing or incomplete.

Students seeking admission to the VN program are admitted to the program on the basis of the following criteria, with maximum point totals awarded as indicated:

- Pre-entrance test scores (4 points)
- Completion of these two courses: (2 points)
 1. BIOL 2404: Intro to Anatomy and Physiology
 2. ITSE 1294: Special Topics in Computer Science
- Temple College Service Area Residency Status (1 point)

Point totals are then used to rank candidates into priority groupings of I, II, III. Admission will be approved from within the priority groups with all criteria taken into consideration, not point totals alone. Any applicant scoring below 41 on the NET-PN composite score, or ranking below priority grouping III, will not be considered for admission.

One point will be deducted from an applicant's point total if the applicant has failed any nursing course in another vocational nursing program.

PROMOTION

Once a student is accepted into and begins the VN curriculum, it is expected that the student will continue to progress directly to the next semester's courses. In order to do this, the student must:

1. Have completed all previously required courses with a "C" grade (2.0 based on a 4.0 scale) or better;
2. Maintain good academic standing (see the College catalog, Minimum Academic standards, Scholastic Probation, & Scholastic Suspension policies);
3. Meet all general Temple College requirements (be approved for registration).
4. Failure in any required nursing course indicates the possibility of failure on the board exam. Therefore, after a second nursing program failure or withdrawal for any reason, a student may not reapply.

In all nursing courses, the following grading scale will be used.

Numerical Value	Letter Grade	Points
100-93	A	4.0
92-85	B	3.0
84-75	C	2.0
Below 75	F	0

The minimum passing grade in each nursing course is a "C" or 2.0 on the 4.0 scale. Further grading criteria can be found in each course outline.

RE-ADMISSIONS

Students may apply for readmission to the VN program following their withdrawal or dismissal by submitting a new application to the VN Program office. Students requesting readmission who have successfully completed any nursing courses more than two years prior to the request will be required to repeat the admission process and re-enroll in all nursing program courses. All policies specified by Temple College for readmitting students will apply (see the College catalog section on readmission under the Application for Admission policy). Applicants being re-admitted to the first semester of nursing courses will be considered by the admission committee using the same criteria as new applicants. All requests for readmission are determined by the priority criteria as listed below. Applicants being considered for readmission to other semesters will be considered on a space available basis by the VN Department Chairman (See prioritization listing).

The Department Chairman will review the applicant's record and make the recommendations as to placement in the program.

A student who was dismissed for an unsatisfactory grade in a nursing course (class and/or clinical) will be asked to discuss the problems that led to dismissal and actions that have been taken that would enable him/her to reasonably expect success in completing the program, passing the licensing exam, and contributing to the profession of nursing.

After a second nursing program failure or withdrawal, a student is not eligible for readmission.

TRANSFER TO THE TC VN PROGRAM FROM ANOTHER NURSING PROGRAM

Transfer students who have been enrolled in an approved VN level nursing school will be considered by the Department Chairman for admission on a space available basis. Also, all policies specified by Temple College for accepting transfer students will apply (see the College catalog section on transfer students under Application for Admission and Academic Honors and Standards policies).

Required non-nursing courses will be evaluated for transferability by the Division Director of Enrollment Management and the VN Department Chairman. The student must arrange for all official transcripts to be sent directly to the Admissions and Records office for any non-nursing course they wish to have considered for transfer. In addition, if a course description is not readily available in the Admissions and Records office, the student will be responsible for providing a copy of the appropriate course description prior to the final determination. An official copy of the transcript and course description should also be sent to the VN Department office.

Required nursing courses will be evaluated for transferability by the VN Department Chairman, in association with the Division Director of Enrollment Management. The student must arrange for an official transcript to be sent directly to the Admissions and Records office. In addition, the student will be responsible for providing a copy of the course description, syllabus, objectives, and an official transcript to the VN Department Chairman. Prior to the final determination, the VN Department Chairman may request the student to provide further information and may consult with specific faculty regarding the acceptability of potential nursing transfer courses into the Temple College curriculum.

Upon final determination of the transferability of any courses, the VN Department Chairman will approve the curriculum plan to be followed by the transfer student. Any student transferring into the nursing program from another nursing program will enter Temple College VN program with only one attempt to complete the program.

PRIORITIZATION LISTING FOR READMISSIONS AND TRANSFERS

Request for readmission or transfer students will be prioritized as follows:

1. First priority: Former Temple College students with a passing grade in previous nursing courses.
2. Second priority: Transfer students with passing grades in previous nursing courses.
3. Third priority: Former Temple College students with a previous nursing course failure.
4. Fourth priority: Transfer students with a previous nursing course failure.

Within each priority group, preference is given based on nursing GPA.

EXIT EXAM

All candidates for graduation will be required to pass an exit level exam before graduating from the Vocational Nursing program.

**CERTIFICATE OF VOCATIONAL NURSING
(TSI WAIVED)**

Note: This is a full-time program. All individuals admitted to this program must enroll in a prescribed set of courses for three consecutive semesters. Individuals may not enroll on a part-time student basis.

VOCATIONAL NURSING REQUIREMENTS (48 semester hrs.)

Summer semester

VNSG 1423	Basic Nursing Skills	4
BIOL 2404	Intro to Human Anatomy & Physiology	4
VNSG 1126	Gerontology	1
VNSG 1122	Vocational Nursing Concepts.....	1
VNSG 1160	Clinical – LVN Training I	1
VNSG 1136	Mental Health	1
	Total	12

Fall semester

VNSG 1330	Maternal-Neonatal Nursing	3
VNSG 2331	Advanced Nursing Skills	3
VNSG 1231	Pharmacology	2
VNSG 1509	Nursing in Health & Illness II	5
VNSG 1560	Clinical – LVN Training II	5
	Total	18

Spring Semester

VNSG 1334	Pediatrics.....	3
VNSG 1510	Nursing in Health & Illness III.....	5
ITSE 1294	Special Topics in Computer Science	2
VNSG 2561	Clinical – LVN Training III.....	5
VNSG 1119	Professional Development	1
VNSG 1138	Mental Illness.....	1
	Total	17
	Total Hours.....	48

**VOCATIONAL NURSING
LEVEL I**

VNSG 1122: Vocational Nursing Concepts (1:1-0)

Introduction to the nursing profession and its responsibilities and the legal and ethical issues in nursing practice. Concepts related to the physical, emotional, and psychosocial self-care of the learner/professional. Corequisites: VNSG 1126, 1136, 1160, 1423, BIOL 2404.

VNSG 1126: Gerontology (1:1-0)

Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of attitudes toward the holistic care of the elderly in a diverse population. Corequisites: VNSG 1122, 1136, 1160, 1423, BIOL 2404.

VNSG 1136: Mental Health (1:1-0)

Introduction to the principles and theories of positive mental health and human behaviors. Topics include emotional responses, coping mechanisms, and therapeutic communication skills. Corequisites: VNSG 1122, 1126, 1160, 1423, BIOL 2404.

VNSG 1160: Clinical-LVN Training I (1:0-6)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Approximately \$20 per year liability insurance fee. Corequisites: VNSG 1122, 1126, 1136, 1423, BIOL 2404.

VNSG 1423: Basic Nursing Skills (4:3-4)

Mastery of entry level nursing skills and competencies to a diverse population for a variety of healthcare settings. Utilization of the nursing process as the foundation for all nursing interventions to meet the holistic healthcare needs. Laboratory experiences are required. \$64 Simulation Fee. Corequisites: VNSG 1122, 1126, 1136, 1160, BIOL 2404.

LEVEL II

VNSG 1330: Maternal-Neonatal Nursing (3:3-0)

Utilization of the nursing process in the assessment and management of the childbearing family. Emphasis on the bio-psycho-socio-cultural needs of the family during the phases of pregnancy, childbirth, and the neonatal period including abnormal conditions. \$16 lab fee. Prerequisites: VNSG 1122, 1126, 1136, 1160, 1423, BIOL 2404. Corequisites: VNSG 1231, 1509, 1560, 2331.

VNSG 1231: Pharmacology (2:2-1)

Fundamentals of medications and their diagnostic, therapeutic, and curative effects. Includes nursing interventions utilizing the nursing process in providing holistic care. \$16.00 lab fee. Prerequisites: VNSG 1122, 1126, 1136, 1160, 1423, BIOL 2404. Corequisites: VNSG 1330, 1509, 1560, 2331. \$16 lab fee.

VNSG 1509: Nursing in Health & Illness II (5:5-0)

Introduction to common health problems of culturally diverse clients requiring medical and surgical interventions during various stages of the life cycle. Prerequisites: VNSG 1122, 1136, 1336, 1160, 1423, BIOL 2404. Corequisites: VNSG 1231, 1330, 1560, 2331.

VNSG 1560: Clinical-LVN-Training II Nurse (5:0-25)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: VNSG 1122, 1126, 1136, 1160, 1423, BIOL 2404. Corequisites: VNSG 1231, 1330, 1509, 2331.

VNSG 2331: Advanced Nursing Skills (3:2-2)

Mastery of advanced level nursing skills and competencies to a diverse population in a variety of healthcare settings utilizing the nursing process as a problem solving tool. Laboratory experiences are required. \$32 lab fee. \$35 assessment test fee. Prerequisites: VNSG 1122, 1126, 1136, 1160, 1423, BIOL 2404. Corequisites: VNSG 1231, 1330, 1509, 1560.

LEVEL III

VNSG 1119: Professional Development (1:1-0)

Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. Prerequisites: VNSG 1231, 1330, 1509, 1560, 2331. Corequisites: VNSG 1138, 1334, 1510, 2561, ITSE 1294.

VNSG 1138: Mental Illness (1:1-0) Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process. Prerequisites: VNSG 1231, 1330, 1509, 1560, 2331. Corequisites: VNSG 1119, 1334, 1510, 2561, ITSE 1294.

VNSG 1334: Pediatrics (3:3-0)

Study of childhood growth and development, diseases and childcare from infancy through adolescence. Focus is on the care of the well and the ill child utilizing the nursing process in providing family centered holistic nursing care. Prerequisites: VNSG 1231, 1330, 1509, 1560, 2331. Corequisites: VNSG 1119, 1138, 1510, 2561, ITSE 1294.

VNSG 1510: Nursing in Health and Illness III (5:5-1)

Continuation of Nursing in Health and Illness II. Further study of common medical-surgical problems of culturally diverse clients including concepts of mental illness. Content incorporates knowledge necessary to make the transition from the student role to the roles of the graduate vocational nurse as an integral component of the multi-disciplinary healthcare team. \$16 lab fee. \$30 exit exam fee. Prerequisites: VNSG 1231, 1330, 1509, 1560, 2331. Corequisites: VNSG 1119, 1138, 1334, 2561, ITSE 1294.

VNSG 2561: Clinical-LVN-Training III (5:0-25)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professionals. Prerequisites: VNSG 1231, 1330, 1509, 1560, 2331. Corequisites: VNSG 1119, 1138, 1334, 1510, ITSE 1294.

**RADIOLOGIC TECHNOLOGY
Partnership with McLennan Community College**

Temple College and McLennan Community College offer radiologic technology through a distance-learning partnership program. This two-year associate of applied science degree prepares students to become radiologic technologists whose primary role is to assist radiologists in the examination of patients for broken bones, ulcers, tumors, disease or malfunctions of organs within the body. Students learn the positioning, exposure, professional ethics, medical terminology, physics, procedures, and techniques of x-ray technology. Certified radiologic technologists may secure employment in hospitals, clinics, and other health care agencies.

Students completing the program are eligible to apply for admission to the certification exam administered by the American Registry of Radiologic Technologists (ARRT). This program is accredited by the Joint Review Committee on Education in Radiologic Technology.

If developmental courses are needed to meet the Texas Success Initiative requirements, it is recommended such courses be completed before enrolling in the program.

For further information about this distance-learning partnership program, contact the Temple College Health Sciences Division at 254-298-8678 or the Radiologic Technology Department at McLennan Community College at 254-299-8342.

RESPIRATORY CARE

The Respiratory Care Program is accredited by the Committee on Accreditation for Respiratory Care Education (CoARC) of the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The program provides educational experiences and all course work necessary to prepare the student as an advanced respiratory therapist and qualify the graduate for the credentialing exams offered by the National Board for Respiratory Care (NBRC). Students desiring admission into the Respiratory Care Program must first meet the basic entrance requirements for Temple College. They then must file for admission to the Respiratory Care Program.

Program Admission Criteria

- I. A completed portfolio should be submitted to the Respiratory Care Department by the third Monday in June. The portfolio should contain the following:
 - A. Texas Success Initiative scores - all candidates should have passed all three parts of an assessment test by this time in order to be considered for full enrollment.
 - B. Departmental aptitude test: HOBET - all candidates should achieve a minimum score of on all portions of both tests.
 - C. Complete a structured tour at the VA and Scott & White hospitals and turn in the appropriate report form.
 - D. Copies of all relevant transcripts: (1) High School, (2) College/University, (3) Military Service schools, (4) other (proprietary schools, etc.)
 - E. Two letters of reference.
 - F. Complete a series of mandated immunizations, including Hepatitis B (the first two inoculations in the series must be completed by the end of June of the year the student seeks admission into the program).
 - G. Complete a physical exam and receive medical clearance to participate in the program.
- II. Interview with the Respiratory Care selection panel. Candidates will be interviewed separately by at least three different panel members.
- III. Letters of notification should be mailed by the close of business on the Friday following the selection process. In the event a candidate is not selected for entry into the program at this time, alternatives will be made available at the candidate's request.

Criminal background checks and drug testing may be required and/or administered at any time by Temple College or any health care facility associated with Temple College. Permission for the criminal background check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.

Special consideration will be given to those prospective students desiring admission who are transferring from programs accredited by CoARC. Students must make at least a "C" in all respiratory care courses in order to continue in the usual sequence described in the course outline. Liability insurance for clinical practice is purchased through the College at approximately \$28. The cost is assessed as part of the fee for the first clinical course (RSPT 1360) and covers the student for the rest of the program.

Upon completion of the last clinical course (RSPT 2362) and a passing grade on a comprehensive respiratory care examination, an Associate of Applied Science Degree and a Certificate of Completion are awarded. The student then becomes an advanced therapist graduate and is eligible to take the national credentialing examinations. Graduates who pass the Certification Examination for Entry Level Respiratory Therapy Practitioners are awarded the Certified Respiratory Therapist credential (CRT); and the Texas Department of State Health Services also awards the Respiratory Care Practitioner (RCP) certification which qualifies the individual to practice respiratory care in the state of Texas. Following the attainment of the CRT credential the candidate may then take the two part Registry Examination for Advanced Respiratory Therapy Practitioners offered by the NBRC. Upon passing both the Written Registry and Clinical Simulation portions of the exam the candidate becomes a Registered Respiratory Therapist (RRT).

Students are encouraged to become student members of the American Association for Respiratory Care, Texas Society for Respiratory Care, and the Association of Respiratory Care Students (a TC student club.) Each of these organizations will aid the student in becoming more familiar with the field of respiratory care.

ASSOCIATE OF APPLIED SCIENCE DEGREE
Respiratory Care

PREREQUISITES

ENGL 1301	Composition I.....	3
BIOL 2401	Human Anatomy and Physiology I.....	4
Elective	Social/Behavioral Science.....	3
	Total	10

FIRST YEAR

Fall Semester

RSPT 1438	Respiratory Care Technology I	4
RSPT 1307	Cardiopulmonary Anatomy and Physiology	3
RSPT 1201	Introduction to Respiratory Care	2
BIOL 2402	Human Anatomy and Physiology II.....	4
	Total	13

Spring Semester

RSPT 1317	Respiratory Care Pharmacology	3
RSPT 1439	Respiratory Care Technology II	4
RSPT 1360	Clinical - Respiratory Therapy Technician.....	3
RSPT 2310	Cardiopulmonary Disease.....	3
	Total	13

Summer (12 weeks)

RSPT 2660	Clinical - Respiratory Therapy Technician.....	6
	Total	6

SECOND YEAR

Fall Semester

RSPT 2305	Pulmonary Diagnostics	3
RSPT 2414	Mechanical Ventilation	4
RSPT 2353	Neonatal/Pediatric Cardiopulmonary Care.....	3
RSPT 2361	Clinical - Respiratory Therapy Technician.....	3
ENGL 2311	Technical & Business Writing.....	3
	Total	16

Spring Semester

RSPT 2239	Advanced Cardiac Life Support.....	2
RSPT 2231	Clinical - Simulations in Respiratory Care	2
RSPT 2425	Cardiopulmonary Diagnostics.....	4
RSPT 2362	Clinical - Respiratory Therapy Technician.....	3
Elective	Fine Arts/Humanities	3
	Total	14
	Total Hours.....	72

RESPIRATORY CARE

RSPT 1201: Introduction to Respiratory Care (1:2-2)

An introduction to the field of respiratory care. Topics include the history of respiratory care, hospital organization , medical malpractice, ethics, vital signs, body mechanics, basic cardiopulmonary assessment, infection control and cardiopulmonary resuscitation (CPR). Lab Fee \$24

RSPT 1307: Cardiopulmonary Anatomy and Physiology (3:3-0)

An introduction to the anatomy and physiology of the cardiovascular, renal, and pulmonary system. Includes the terminology used in respiratory physiology.

RSPT 1317: Respiratory Care Pharmacology (3:1-2)

A study of the pharmacological principles/practices of drugs which affect the cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and interaction of the autonomic nervous system. Lab Fee \$12

RSPT 1360: Clinical - Respiratory Therapy Technician (3:0-16)

A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement is the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Liability Insurance approximately \$28.

RSPT 1438: Respiratory Care Technology I (4:3-3)

Provides students with the essential knowledge of medical gas therapy, humidity and aerosol therapy, and lung expansion therapy. Lab Fee \$24

RSPT 1439: Respiratory Care Technology II (4:3-3)

Provides students with the essential knowledge of bronchial hygiene therapy, airway management and resuscitation devices. Lab Fee \$24

RSPT 2231: (Clinical) Simulations in Respiratory Care (2:2-0)

The theory and history of clinical simulation examinations. Topics include the construction types, scoring, and mechanics of taking the exam along with practice in taking both written and computerized simulations, and basic concepts of computer usage.

RSPT 2239: Advanced Cardiac Life Support (2:2-0)

A comprehensive course designed to develop the cognitive and psychomotor skills necessary for resuscitation of the adult. Strategies for managing and stabilizing the cardiopulmonary arrested patient will be included.

RSPT 2305: Pulmonary Diagnostics (3:2-2)

The theories and techniques involved in pulmonary function testing diagnostics with emphasis on blood gas theory and analysis, quality control, oximetry, and capnography. Lab Fee \$24

RSPT 2310: Cardiopulmonary Disease (3:3-0)

A discussion of the pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases.

RSPT 2353: Neonatal/Pediatric Cardiopulmonary Care (3:3-2)

A study of acute care, monitoring and management as applied to the neonatal and pediatric patient. Lab Fee \$12

RSPT 2361: Clinical - Respiratory Therapy Technician (3:0-16)

A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement is the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary.

RSPT 2362: Clinical - Respiratory Therapy Technician (3:0-16)

A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement is the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary.

RSPT 2414: Mechanical Ventilation (4:3-2)

Preparation to conduct the therapeutic procedures to achieve adequate, spontaneous, and artificial ventilation with emphasis on ventilator classification, methods, principles, and operational characteristics. Also included are the indications, complications, and physiologic effects/principles of mechanical ventilation. Lab Fee \$16

RSPT 2425: Cardiopulmonary Diagnostics (4:3-3)

A study of physical, radiologic, hemodynamic, laboratory, nutritional, and cardiopulmonary diagnostic assessment of the pulmonary patient. Lab Fee \$24

RSPT 2660: Clinical - Respiratory Therapy Technician (6:0-16)

A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement is the responsibility of the College faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. This is a 12 week course during the summer.

POLYSOMNOGRAPHY

The Respiratory Care Department also offers a nine month long advanced technical certificate in Polysomnography. Polysomnographic (PST) technology is an allied health specialty for the diagnosis and treatment of disorders of sleep and daytime alertness. The range of sleep disorders is varied, but includes such common disorders as narcolepsy, sleep apneas, insomnias and others. PSG technologists operate a variety of sophisticated monitoring devices, which record things like brain activity (EEG), muscle and eye movements, respiration, blood oxygen levels and other physiologic events. Technologists are also involved in evaluation of various treatment methods. Polysomnographers are typically employed in sleep laboratories. Most are located in medical centers, hospitals or clinic/office settings or free standing sleep labs.

The program accepts students with associate degrees in nursing, respiratory care and emergency medical services professions who wish to expand their areas of expertise. By submitting official transcripts showing the associate degree award students would automatically meet the TSI requirement. After successfully completing the nine month program students receive a certificate of completion. Courses are taught by physicians specializing in sleep medicine and registered polysomnographers (PSGT). Lectures and labs are given in the Health Sciences Center and Nursing Education Center on campus. Clinicals are in area sleep labs. A major emphasis of the program is to prepare graduates for the Board of Registered Polysomnographic Technologists (BRPT) registry examination.

Students desiring admission into the Polysomnography Program must first meet the basic entrance requirements for Temple College and file for general admission to Temple College.

Program Admission Criteria

- I. A completed portfolio should be submitted to the Respiratory Care Department by the third Monday in June. The portfolio should contain the following:
 - A. Application to the Polysomnography Program submitted through the Department of Respiratory Care.
 - B. Copies of relevant transcripts and diplomas: (1) High School, (2) College/University, (3) Military Service schools, (4) other (proprietary schools, etc.)
 - C. Copies of relevant state licenses/credentials.
 - E. Two letters of reference.
 - F. Complete a series of mandated immunizations, including Hepatitis B (the first two inoculations in the series must be completed by the end of June of the year the student seeks admission into the program).
 - G. Complete a physical exam and receive medical clearance to participate in the program.
- II. Interview with the Polysomnography selection panel. Candidates will be interviewed separately by at least three different panel members.
- III. Letters of notification should be mailed by the close of business on the Friday following the selection process. In the event a candidate is not selected for entry into the program at this time, alternatives will be made available at the candidate's request.

Criminal background checks and drug testing may be required and/or administered at any time by Temple College or any health care facility associated with Temple College. Permission for the criminal background check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.

Students must make at least a "C" grade in all polysomnography course in order to continue in the usual sequence as described in the course outline. Liability insurance for clinical practice is purchased through the College at an approximate cost of \$20 for the year.

**Advanced Technical Certificate in
Polysomnography**
(Pending Coordinating Board Approval)

Fall Semester

PSGT	1370	Polysomnography I	3
PSGT	1372	Anatomy and Physiology of Sleep	3
PSGT	1373	Sleep Disorders	3
PSGT	1374	Instrumentation for Polysomnography	3
		Total	12

Spring Semester

PSGT	1371	Polysomnography II	3
PSGT	1271	Pediatric Sleep Disorders	2
PSGT	1375	Clinical I- Polysomnography	3
PSGT	1471	Sleep Scoring and Monitoring	4
		Total	12
		Total Hours	24

POLYSOMNOGRAPHY

PSGT 1271 Pediatric Sleep Disorders (2:2-0)

Introduction to the study of sleep disorders in children. Instruction contrasts the differences in the physiology, pathophysiology and appropriate interventions of sleep disorders in pediatric versus adult populations.

PSGT 1370: Polysomnography I (3:3-1)

Introduction to the study of sleep disorders. Instruction on the history, organization and equipment used in sleep medicine. Also covered are techniques in patient assessment and interaction, test preparation procedures, technology, and techniques used with patients having sleep disorders. Lab Fee \$20

PSGT 1371: Polysomnography II (3:3-1)

Further instruction in polysomnography. Areas include the application of technology to Multiple Sleep Latency (MSLT), and Maintenance of Wakefulness Testing (MWT). Other areas include basic monitoring and titration of treatment modalities. Lab Fee \$20

PSGT 1372: Anatomy and Physiology of Sleep (3:3-0)

Introduction to basic anatomy and physiology of sleep. Includes the anatomy and physiology of relevant brain and nervous systems and their control of sleep patterns, NREM and REM sleep, circadian rhythms, pulmonary, cardiovascular, endocrine and immune systems along with thermoregulation during sleep,

PSGT 1373: Sleep Disorders (3:3-0)

A study of sleep disorders and their treatments. Includes areas such as obstructive sleep apnea (OSA), REM sleep behavior disorder, central sleep apnea, nocturnal asthma, narcolepsy, and other disruptions of normal sleep.

PSGT1374: Instrumentation for Polysomnography (2:2-2)

Instruction in the instrumentation used to study sleep disorders. Equipment and procedures used to treat sleep disordered breathing is also covered. Lab activities will afford students with opportunities to practice using equipment and learn common procedures utilized in sleep labs. Lab Fee \$20

PSGT 1375: Clinical I - Polysomnography (3:0-16)

Provides laboratory and sleep disorders experience in polysomnography. Clinical experience includes patient interviewing, hook-ups, online monitoring and analysis of PSG recordings, titrating oxygen and positive pressure applications along with other relevant procedures. In addition, students gain basic competencies in recognizing and responding to critical events that occur during sleep. Liability Insurance Fee \$20

PSGT 1471 Sleep Scoring and Monitoring (4:3-3)

Development of skills for sleep scoring and staging. Consideration of medication effects, age, gender, sleep/wake schedules, changes in sleep habits, and other pertinent factors. Students will evaluate parameters such as total record time, total sleep time, sleep efficiency, total wake time, wake after sleep onset, wake after sleep offset, sleep latency, REM latency, states 1-4, REM sleep, awakenings, arousals, EEG, sleep disordered breathing, leg movements, and cardiac patterns. Lab Fee \$24

SURGICAL TECHNOLOGY

The one-year (full-time) Surgical Technology Program provides technical and educational experiences that prepare the graduate for the position as a surgical technologist in the operating room and to meet the eligible criteria to write the national certification examination sponsored by the Liaison Council on Certification for the Surgical Technologist. New classes begin in the summer semester of each year. Applications are processed 7 months prior to the actual beginning of the surgical technology classes. Admission to the program is based upon completion of all requirements as listed below with student selection according to the HOBET reading and math scores, with emphasis placed on the reading scores.

Criminal background history checks and drug testing may be required and/or administered at any time by Temple College or any health care facility associated with Temple College. Permission for the criminal background history check must be given by the student. Failure to give permission could result in dismissal from the program. It may be necessary to dismiss students from the program if they are barred from practicing at any healthcare facility.

Updated and supplemental information can be viewed on the Temple College website, **www.templejc.edu/dept/SurgTech/SurgTech1.htm**.

Students desiring admission to the Surgical Technology Program must complete the following:

1. Complete the Temple College admission procedure.
2. Attend Surgical Technology Information Session (call department for dates and time).
3. Pass the HOBET pre-entrance examination with established departmental minimum scores.
4. Submit a formal application to the program.

Uniforms in the classroom will consist of a Caribbean blue scrub suit with name badge, white knee-length lab coat with attached ST patch, and white duty shoes. A list of anticipated expenditures is provided at the Information Session.

Prior to entering the, beginning of the Summer Semester students will be required to submit a physical examination, including immunizations and medical-mandated tests, with medical clearance by a physician. Note: the Hepatitis B series of immunizations must be completed before entry into the clinicals the end of September.

Requirements for graduation include:

1. Complete all courses as required in the stated Surgical Technology curriculum with a grade of "C" or better.
2. Successfully pass the Surgical Technology Exit Examination.
3. Complete stated clinical competencies.
4. Present a current "Health Care Provider" or "Professional Rescuer CPR" certificate.
5. Write the Program Assessment Examination.

Students are encouraged to join the Association of Surgical Technologists, Inc. Additional information concerning a career as a surgical technologist is available at www.ast.org .

**LEVEL I - CERTIFICATE (TSI WAIVED)
Surgical Technology**

Summer Entry

First Semester

BIOL	2404	Introduction to Human Anatomy & Physiology..	4
SRGT	1201	Medical Terminology	2
SRGT	1509	Fundamentals of Perioperative Concepts and Techniques	5

Second Semester (Fall Semester)

First 4 Weeks

SRGT	1505	Introduction to Surgical Technology	5
------	------	---	---

Last 12 Weeks

SRGT	1441	Surgical Procedures I	4
SRGT	1560	Clinical - Surgical Technology/ Technologist, Introductory	5

Third Semester (Spring Semester)

First 8 Weeks

SRGT	1442	Surgical Procedures II	4
SRGT	1361	Clinical - Surgical Technology/ Technologist, Intermediate	3

Second 8 Weeks

SRGT	1462	Clinical - Surgical Technology/ Technologist, Advanced	4
SRGT	2130	Professional Readiness	1
		Total Hours	37

SURGICAL TECHNOLOGY

SRGT 1201: Medical Terminology (2:2-0)

Study of the basic structure of medical words including prefixes, suffixes, roots, combining forms, plurals, pronunciation, spelling, and the definitions of medical terms. Emphasis is on building a professional vocabulary required for employment within the allied health field

SRGT 1505: Introduction to Surgical Technology (5:5-0-0)

Orientation to surgical technology theory, surgical pharmacology and anesthesia, technical sciences, and patient care concepts. Prerequisite: SRGT 1509. A 4-week course.

SRGT 1509: Fundamentals of Perioperative Concepts and Techniques (5:3-6-0)

In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field. \$90 sterile supply pack fee. Student must successfully perform a videotaped practicum demonstration with an 80% proficiency in order to pass this course. A 12-week course.

SRGT 1441: Surgical Procedures I (4:4-0-0)

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Prerequisite: SRGT 1505. An eight-week course.

SRGT 1442: Surgical Procedures II (4:4-0-0)

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, EENT, cardiac, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Prerequisite: SRGT 1505. An 8-week course.

SRGT 1560: Clinical – Surgical Technology/Technologist, Introductory (5:0-0-18)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Basic level surgical technology competencies are evaluated. Approximately \$20.00 liability fee. A 12 week course. Prerequisite: SRGT 1505, SRGT 1509.

SRGT 1361: Clinical – Surgical Technology/Technologist, Intermediate (3:0-0-11)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Intermediate level surgical technology competencies are evaluated. An 8-week course. Prerequisite: SRGT 1560.

SRGT 1462: Clinical – Surgical Technology/Technologist, Advanced (4:0-0-13)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Advanced level surgical technology competencies are evaluated. An 8-week course. Prerequisite: SRGT 1361.

SRGT 2130: Professional Readiness (1:1-0-0)

Exploration of issues and situations faced as surgical technologists. Topics may include job-seeking skills and written professional portfolios, pros/cons of malpractice insurance, reality shock of employment, coping with issues of death and dying, organ procurement issues, and preparation for national certification. A capstone experience may be included. Prerequisite: SRGT 1441: SRGT 1442. An 8 week course.

BUSINESS AND COMMUNITY EDUCATION

Community Education

Community Education is an important component of the total education program at Temple College. Temple College, as one of 72 community and technical colleges of the state, is designated by the Texas Legislature, as primary provider of workforce education and training for our Central Texas area. Because Temple College Community Education partners with Local Workforce Board representatives, it is able to affordably offer assistance and meet demands for trained workers for local businesses. Temple College Community Education seeks to create education and training that responds to current and future needs of a diverse population, providing the community with quality resources that stimulate personal, workforce and economic development. Programs can be tailored to suit the needs of any employers, and training can be provided at times and locations most convenient for the training entity. Non-credit classes are designed to give adults an opportunity, to keep up with new developments related to their present occupations, to train for new career paths, or to explore activities for personal growth.

Most non-credit courses are open to interested persons without specific admission requirements. Persons who register for and successfully complete these courses are awarded Continuing Education Units (CEU's); normally one CEU is awarded for each ten hours of training. Many courses offered meet the mandatory continuing education requirements for re-licensure and educational advancement in professions.

Temple College offers courses in Information Technology such as computer applications, word processing, spreadsheets, database, Internet, Web Page design, and eBay. Professional and personal development opportunities include, business communication skills, Spanish, welding, and sign language. Phlebotomy Technician, Certified Nurse Aide, Medical Terminology and Coding and several health related programs are available. Several classes are also being offered that are taught in Spanish.

Non-credit concurrent enrollment is available for some technical classes. Neither transcripts nor college entrance exams are required. Costs are comparable to the credit class, but students are exempt from exams and grades. Students receive the same level and quality of instruction for the same length as credit classes. This type of enrollment is available in subjects such as business management, computer-aided design, industrial technology, and computer information systems. Contact the Community Education Department at the time of registration to enroll in this manner.

A minimum of ten students is usually required for a class to be offered. The tuition and fees for many non-credit classes start as low as \$3.63 per class hour, with additional costs for labs, supplies, or insurance. A one hundred percent refund will be given if Temple College cancels the class. A full refund will also be granted if a student officially withdraws in writing through the Community Education Office prior to the second class meeting, depending on the class length. No refunds will be granted after the class has met for the 2nd time.

Business and Corporate Training

The Temple College Business and Community Education Department serves as an educational resource for businesses in the Central Texas area. It is our goal to improve the prosperity of our region through partnerships with business, government, and community organizations. Temple College can develop a plan of goals, by meeting with a business, to help overcome specific deficiencies. We can provide an agreement that spells out our services and proposes dates, times and locations. With our educational institution's expertise, we provide on-site pre-evaluations, qualified instructors for specific business needs, adequate instructional materials, and post-test evaluations to measure success on site and at the company's convenience. Temple College goals coupled with company needs provide improvement in employee performance and productivity. As a resource and partner we are able to deliver customer-focused training to address the needs of a diverse workforce.

Customized Training

Customized training can be developed in such areas as microcomputer applications training, manufacturing-related training, computer programming, electronics, communication, human resources, health sciences, and other business/industry related topics. Contact Community Education for additional information.