



THE COLLEGE OF NURSING
Advising Offices are Located in:

113 Henderson Hall
(330) 672-7930
<http://dept.kent.edu/nursing>

COLLEGE OF NURSING

The Kent State University College of Nursing provides a course of study at both the baccalaureate and master's level. After completion of the required course of study in the arts and sciences and professional nursing, graduates receive the degree of Bachelor of Science in Nursing and are eligible to apply to take the state licensing examination to become professional registered nurses. Two additional years of study lead to the degree of Master of Science in Nursing with clinical focus in adult, psychiatric mental health or parent child nursing, and role function options in administration, education, clinical specialization or nurse practitioner.

Accreditation

The baccalaureate and master's programs are accredited by the National League for Nursing Accrediting Commission and have preliminary approval from the Commission on Collegiate Nursing Education. The baccalaureate nursing program is approved by the State of Ohio Board of Nursing.

Aims of the Program

The specific purposes of the baccalaureate nursing program are to prepare practitioners for the beginning practice of professional nursing; to provide a base for the continuing development of the students as individuals, as citizens and as professional practitioners of nursing; and to provide a foundation for graduate study in nursing.

The College of Nursing is committed to the education of professionals in nursing within the perspective of today's society. The faculty believes that the foremost aim of such education is the acquisition of knowledge and unique specialized skills of the nursing profession. Professional education for nursing lays a foundation for the proficient and competent performance of nursing practice, based on scientific principles, and entailing self-directed activities and discriminative judgments.

The faculty believes that professional education in nursing stresses the development of high ethical standards and moral values, which enable future practitioners to make essential contributions to public welfare and social progress. Professional education in nursing strives to develop communication skills and personality traits for effective interpersonal relationships and provides a base for continuing study and for personal, social and professional development.

The program in nursing stresses the application of physical, biological and social sciences to professional nursing practice. Throughout the program, students learn to give professional nursing care to children and adults of various age groups in acute care, home and community settings.

Student Awards

Awards available through the College of Nursing include the Award for Excellence in Nursing Practice, the Award for Leadership/Service and the Judith Hollander Bess Award for Academic Excellence. College of Nursing scholarships include the Vincent A. and Corine S. Chiarucci Founders Medallion Scholarship, the Victoria C. T.

Read Founders Medallion Nursing Scholarship, The College of Nursing Alumni Council Kare Scholarship and the Dean Davina J. Gosnell Scholarship.

Liberal Education Requirements

All students graduating with a baccalaureate degree from Kent State University must have completed 36 semester hours of LERs. These requirements normally are to be fulfilled within the first 60 semester hours of enrollment. These courses reflect Kent State's LERs as they are further specified by the nursing curriculum. These requirements are:

- | | |
|---|------------|
| I. Composition | 6 |
| ENG 10001, 10002, College English I, II | |
| II. Mathematics, Logic and Foreign Languages | 6 |
| <i>Select from the LERs on Page 77.</i> | |
| III. Humanities and Fine Arts | 9 |
| <i>Select from the LERs on Page 78.</i> | |
| IV. Social Sciences | 9 |
| PSYC 11762, General Psychology | 3 |
| SOC 12050, Intro. to Sociology | 3 |
| One course | 3 |
| <i>Select from the LERs on Page 78.</i> | |
| V. Basic Sciences | 10 |
| CHEM 10050, Fundamentals of Chemistry | 3 |
| Choose one from: | 2-5 |
| 10052, Introduction to Organic Chemistry (2) | |
| 10054, Gen. and Elem.Organic Chemistry (5) | |
| BSCI 20020, Biological Structure and Function | 5 |

Diversity Course Requirement

Students graduating with a Bachelor of Science in Nursing complete two courses chosen from the Diversity Course Requirements. One course must be taken as part of the Liberal Education Requirements (LER) and the second from the courses listed on Page 81 of this *Catalog*.

Writing-Intensive Course Requirement

Refer to either Pages 64 or 84-85 of this *Catalog* for specific information on the Writing-Intensive Course Requirement.

Program of Study

The program of study includes 129 semester hours of study in arts and sciences and professional nursing courses directed toward preparing graduates who:

1. Use critical and analytical thinking in the application of the nursing process to provide health care to clients-individuals, families, communities and groups.
2. Establish effective relationships in the delivery of nursing care through the use of interpersonal, written and electronic means.
3. Assume responsibility for their personal and professional growth and nursing actions.
4. Participate with the interdisciplinary and intradisciplinary team to facilitate ongoing improvement in the delivery of health care services.
5. Participate in the use of technology in a wide variety of settings in the provision of health care services.
6. Use basic knowledge of the research process in nursing practice.
7. Assume the roles of professional nurses.

Program Requirements

I. FIRST YEAR (Prenursing) . . . . .	.33
BSCI 20020, Biol. Structure and Function	5
20021, Basic Microbiology	3
CHEM 10050, Fundamentals of Chemistry**	3
10052, Intro. to Organic Chemistry**	2
ENG 10001, 10002, College English I, II	6
NURS 10050, Intro. to Professional Nursing	1
PSYC 11762, General Psychology	3
SOC 12050, Intro. to Sociology	3
US 10001, University Orientation	1
Diversity****	3
Social Science***	3
II. SECOND YEAR . . . . .	.34
BSCI 30030, Human Physiology	4
30050, Human Genetics	3
CHEM 20284, Physiological Chemistry	4
NURS 10020, Basic Cardio Life Support	1
20000, Professional Nursing Issues	2
20020, Foundations of Assessment and Comm. in Nursing	3
20030, Foundations of Nursing Intervention	5
20950* Human Growth and Development for Health Professionals	3
NUTR 33512, Nutrition for the Family	3
Electives from Math/Logic/or Foreign Languages***	6
III. THIRD YEAR . . . . .	.32
NURS 30000, Professional Nursing Concepts	2

30010, Parent and Newborn Nursing	4
30020, Health Care of Children	4
30030, Nursing of Adults	5
30040, Nursing of Adults with Rehab. Needs and/or Gerontologic Changes	4
30050, Basic Nursing Informatics	2
30060, Basic Pharmacology for Nursing Practice	2
Statistics (one of the following)	3
MATH 10041, Elem. Prob. and Statistics (3)	
PSYC 21621, Quant. Methods in Psych. (3)	
SOC 32220, 32221, Data Analysis (4)	
Electives from Humanities***	6
IV. FOURTH YEAR . . . . .	.30
NURS 40000, Professional Nursing Development	2
40010, Nursing of the Critically Ill	4
40020, Community Health Nursing	4
40030, Psychiatric Nursing and Mental Health Nursing Care	4
40040, Leadership and Management in Nursing	4
40050, Nursing Integration Practicum	3
40872, Intro. to Nursing Research	3
PSYC or SOC elective (upper-division)	3
Elective from Fine Arts***	3

TOTAL	129
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*Offered fall semester only.

**Regional Campus students may substitute CHEM 10054 for CHEM 10050 and 10052.

***See nursing LERs, Page 329.

****See diversity courses Page 81.

Elective nursing courses: Special nursing courses will be offered periodically by nursing faculty and may be taken as electives by nursing students. These courses are listed in the Catalog.

CPR, Basic Cardiac Life Support certification is required of all nursing students. The course NURS 10020, CPR is provided for those needing certification.

Major clinical facilities utilized for students' learning experiences include Cleveland Clinic, University Hospitals, Brecksville Veteran's, University Settlement, Jennings Hall, Health Hill and Metro-Health in Cleveland; Akron General Medical Center, Summa Health System—Akron City and St. Thomas hospitals, and Children's Hospital Medical Center of Akron; Belcher Apartments, Robinson Memorial Hospital and the Kevin Coleman Mental

Health Center in Ravenna; Mercy Medical Center in Canton; Park Vista and St. Elizabeth Medical Center in Youngstown; Trumbull Memorial Hospital and St. Joseph's in Warren; Massillon Community Hospital; Hattie Larlham Foundation in Mantua; The Summit County Health Department; The Cleveland Health Department; The Trumbull County Visiting Nurse Agency; Robinson Memorial Hospital Visiting Nurse and Hospice; Alliance Visiting Nurse Agency; and various other social and health agencies. These facilities are subject to change and availability.

Transportation is provided from the campus to clinical facilities by the Campus Bus Service with the exception of one semester in the senior year when students must have access to the use of a car while enrolled in Nursing in the Community.

ADMISSION PRENURSING

New Freshmen

Admission will be granted to those students who have completed a strong academic pattern of courses in high school. In addition to meeting all general university requirements, it is essential that applicants present study in chemistry, biology and mathematics from high school. A high school GPA of 2.70 (on a 4.0 scale) is also required.

An ACT composite score of 22 and 22 in scientific reasoning is the minimum expected to receive favorable consideration.

Transfer Students

In addition to meeting all general university requirements for admission, transfer students should contact the College of Nursing regarding special information and deadlines.

Transfer students will be admitted to the College of Nursing on an individual basis.

Students wishing to transfer from another baccalaureate nursing program should consult directly with the College of Nursing at the time of application to the university.

Second Degree Students

Persons with a non-nursing degree wishing to pursue the study of nursing should consult with the College of Nursing at the time of application to the university.

Licensed Practical Nurses

L.P.N.s admitted to the nursing sequence enroll in a role transition course and may establish credit-by-examination for selected sophomore-level nursing courses. An appointment should be made for advising through the College of Nursing at the time of application.

Sophomore Nursing Sequence

Limitations on available space for sophomore nursing majors necessitate a selective admission process. The sophomore nursing sequence begins only in the fall semester of each year. Preference is given to applicants who:

1. Complete BSCI 20020, 20021 and CHEM 10050, 10052 or CHEM 10054, with a minimum of a 2.50 GPA in these sciences;
2. Complete a minimum of 30 semester hours with a 2.50 or higher GPA.

In February of the freshman year, prenursing students should apply directly to the College of Nursing for admission to the sophomore nursing sequence. Selection for the sophomore nursing sequence is made by a faculty committee of the College of Nursing beginning in June of each year.

Registered Nurses

Registered nurses admitted to the program may take examinations to establish credit in selected nursing courses. In addition, credit may be established in selected arts and sciences courses through examination. Transition nursing courses are available for registered nurses. Eighteen semester hours of required nursing courses are available via distance learning technology.

Kent's Eight-Campus Network

The first year of the baccalaureate nursing program is available on all eight campuses. The second year is offered at the Kent, Ashtabula, Salem, Stark and Trumbull campuses. Senior-level nursing courses are available at these same campuses via interactive computer technology. Advising is provided at each campus.

Progression

Progression and continuance in the program is based upon successful scholastic achievement and personal qualities for the practice of professional nursing.

Calculation of Averages for Progression to Junior and Senior Sequence Nursing Courses.

1. Students must have a 2.0 cumulative GPA each semester to continue in clinical nursing.
2. Progression to junior nursing requires the completion of 60 semester hours with a 2.00 or higher GPA; the completion of all biology and chemistry courses as noted in program requirements with a 2.00 or higher GPA; completion of all freshman and sophomore nursing courses with a 2.00 or higher GPA in each nursing course. In addition, N10050, Intro to Professional Nursing, normally is completed prior to the

sophomore nursing sequence, but must be completed with a grade of C or higher prior to beginning the junior nursing sequence.

3. Progression to senior nursing courses requires the completion of 90 semester hours with a 2.00 or higher GPA; the completion of all junior nursing courses; a 2.00 minimum GPA in each sophomore and junior nursing course.

Repeat of Clinical Nursing Courses:

Each clinical course may be repeated one time only. Students may repeat no more than two clinical nursing courses throughout the program. Only one sophomore clinical course may be repeated. A withdrawal will be considered a repeat of the course if the students are failing theory and/or have an unsatisfactory in clinical at the time of withdrawal.

Students attaining two failures in clinical nursing courses are automatically dismissed from the nursing program. A clinical course in which an F is received must be repeated before progression in any other clinical course. A grade of at least a C must be obtained on repeat to avoid dismissal from the nursing program.

Graduation

The degree of Bachelor of Science in Nursing is granted to students who complete the planned program of study with a cumulative GPA of at least 2.00 (C) and a 2.00 or higher in biology and chemistry courses, and a minimum 2.00 in each nursing course. Students also need to meet all other university requirements for graduation and complete a minimum of 32 semester hours at Kent State.

Expenses and Financial Aid

In addition to the regular university expenses, nursing school costs for the four years include:

Uniforms, \$80

(Payable prior to beginning sophomore nursing)

Nurse Liability Insurance, \$99

Clinical Nursing Laboratory Fee, approximately. \$800

Senior-Year Expenses, \$700

(These expenses are approximate and will vary as the charges vary. Examples of the expenses included are the state licensure application fee, NCLEX-CAT fee, College of Nursing pin, pictures for licensure and the NCLEX-CAT review.)

In addition to the regular university financial aid, nursing students are eligible for financial assistance, which is exclusively for nursing students, such as:

- The Elizabeth Hudak Memorial Fund (Short-term emergency loan fund)
 - Work Agreement Scholarships with health care agencies
 - Cleveland Clinic Foundation Nursing Education Grant Program
 - Akron General Medical Center Service League Scholarship
 - University Hospitals of Cleveland Tuition Assistance Plan
 - The Army, Air Force and Navy Nurse Corps Student Programs
- The Federal Nursing Scholarship Program
 - Jay S. Cole Scholarship
 - Federal Nursing Student Loan Program





THE SCHOOL OF TECHNOLOGY
Advising Offices are Located in:

119 Van Deusen Hall
(330) 672-2892
<http://www.tech.kent.edu>

SCHOOL OF TECHNOLOGY

Statistics indicate that at the start of the 21st century employment opportunities will be the greatest in high-technology fields. Kent State University's School of Technology, part of Kent State's eight-campus network, offers technology-based programs that will provide students with the skills needed to compete in today's job market.

With more than 25 programs offered—at the certificate, associate's, bachelor's and master's degree levels throughout Kent's eight-campus network, a talented faculty and flexible class schedules that include evening, weekend, distance learning and Web-based classes, the School of Technology has a program to match your needs and interests. Academic programs are divided into three areas: aeronautics, applied business technologies and applied science and technology.

On the Kent Campus, the School of Technology offers four-year programs in aeronautics, industrial technology, technology education teacher preparation and technology. At Kent State's seven Regional Campuses, the school has the following two-year degrees; *Associate of Applied Business*, *Associate of Applied Science* and the *Associate of Technical Studies*. Programs in these areas include technology, computer technology, business technology, industrial technology, engineering technology and environmental technology. These programs are described under *Regional Campuses*.

Many of the credits earned in the school's associate's degrees can be applied toward the "2+2" program for a B.S. degree in technology or industrial technology. These programs are described under "2+2" *Concentration for Associate's Degree Graduates*.

Note: To receive a baccalaureate degree from the School of Technology, students must, in addition to other requirements, satisfy the 36-hour minimum stipulated in the LERs. (See Pages 77-80.)

Cooperative Education

Cooperative education permits students with technical jobs to capture learning experiences at their place of employment for credit in their college curriculum. Qualified students work with their assigned faculty mentor to define the nature and technical scope of the learning involved. In most cases the faculty mentor will visit the place of employment and discuss the task with the student's supervisor. At the conclusion of the effort a report is required to summarize the work completed and the knowledge acquired.

This is available to School of Technology majors of sophomore rank or above with a 2.25 or better overall GPA. Students working full-time can earn 2 hours a semester; 1 credit may be earned for half-time work. This course is repeatable to a maximum of 6 credits; however, some programs limit use of co-op credits to fulfill graduation requirements.

Writing-Intensive Course Requirement

Refer to either Pages 64 or 84-85 of this *Catalog* for specific information on the Writing-Intensive Course Requirement.

BACHELOR OF SCIENCE DEGREE

Technology

This program provides a liberal education within our technological culture for students contemplating careers in technical-industrial fields or as a technology education teacher. Courses in the major provide breadth of technical experience, while electives may be utilized to increase competencies in one or more areas. Students planning to become technology education teachers take the minor in Technology Education Licensure in lieu of the technology electives and general electives.

I. Composition	9
ENG 10001, 10002, College English I, II	6
20002, Introduction to Technical Writing	3
II. Mathematics, Logic and Foreign Languages	7
MATH 12001, Algebra and Trigonometry	4
Select 3 hours from the LERs	3
III. Humanities and Fine Arts	9
COMM 15000, Theory and Practice of Oral Discourse	3
Select 6 hours from the LERs	6
IV. Social Sciences	12
PSYC 11762, General Psychology	3
31773, Industrial Psychology	3
Select 6 hours from the LERs	6
V. Basic Sciences	9
<i>At least 6 hours must be from courses that include a laboratory component. The remaining 3 hours may be from LERs.</i>	
VI. US 10001, University Orientation	1
VII. Major Requirements:	40
Technology Core	
TECH 10001, Information Technology	3
13580, Engineering Graphics I	3
20001, Energy/Power	3
20002, Materials and Processes	3
21021, Survey of Electricity and Electronics	4
Technology	
TECH 11071, Woods Technology I	3
21046, Graphic Communication Tech. I	3
31000, Cultural Dynamics of Technology	3
31015, Construction Technology	3

31016, Manufacturing Technology	3
31087, Design for Technology Education	3
32002, Materials and Processes II	3
43080, Industrial and Environmental Safety	3
VIII. Technology electives	14
IX. General electives	21
TOTAL	122

Note: Upper-division technology electives must be chosen with faculty adviser.

Students must complete technology core sequence and all required lower-division math and science courses before registering for upper-division technology courses.

Minimum of 39 upper-division hours required.

Minimum of 2.00 overall GPA is required. (NOTE: Students completing the Technology Education Licensure minor must maintain a minimum 2.5 overall GPA, and a 2.75 in the major.)

Minimum of 2.25 GPA required in major. (NOTE: Students completing the Technology Education Licensure minor must maintain a minimum 2.75 GPA in the major.)

"2+2" Concentration for Associate's Degree Graduates

This "2+2" concentration provides a variety of options for associate's degree graduates who wish to advance their careers in technical environments. It allows graduates to apply all, or nearly all, of the coursework completed in their associate's degree program toward the Bachelor of Science degree. Five options are available. The general option permits graduates from a variety of associate's degree backgrounds to formulate a program of advanced study in upper-division technical courses, chosen with a faculty adviser, to gain additional technical depth or breadth. The general electives in this option can be used to earn a minor from another academic unit to complement their major study. The four other options are based on specific associate's degrees and offer a more focused Bachelor of Science completion utilizing specific upper-division courses in the specific area of specialization.

General Option

I. US 10001, University Orientation	1
II. Composition	9
ENG 10001, 10002, College English I,II . . . . .	.6
Choose one from: . . . . .	.3
ENG 20001, Business Writing (3)	
20002, Introduction to Technical Writing (3)	

ITAP 26638, Business Communications (3)	
III. Mathematics, Logic and Foreign Languages	7
Select 3 hours from LERs . . . . .	.3
Choose one from: . . . . .	.4
MATH 11011, College Algebra (4)	
12001, Algebra and Trigonometry (4)	
IV. Humanities and Fine Arts	9
Select 9 hours from LERs.	
V. Social Sciences	9
Select 9 hours from LERs.	
VI. Basic Sciences	9
At least 6 hours must be laboratory science courses. Select the remaining 3 hours from LERs.	
VII. Technology Major Requirements	34
Credits from approved associate's degree.	
VIII. Technology Electives	15
Courses must be upper-division.	
IX. General Electives	28
Minimum of 12 hours upper-division.	
TOTAL	121

Notes: Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required with a minimum of 2.00 in upper-division TECH courses. Upper-division technology electives must be chosen with faculty adviser. The courses chosen to fulfill the curriculum must satisfy university Diversity and Writing-Intensive Course Requirements. Minimum of 27 hours of upper-division coursework required for technology associate's degree graduates.

Computer Design and Animation Engineering Technology Option

I. US 10001, University Orientation	1
II. Composition	9
ENG 10001, 10002, College English I,II . . . . .	.6
20002, Introduction to Technical Writing . . . . .	.3
III. Mathematics, Logic and Foreign Languages	9
MATH 11011, College Algebra . . . . .	.4
11022, Trigonometry . . . . .	.2
11012, Intuitive Calculus . . . . .	.3
IV. Humanities and Fine Arts	9
COMM 15000, Theory and Practice of Oral Discourse . . . . .	.3
PHIL 21001, Introduction to Ethics . . . . .	.3
Choose one from: . . . . .	.3
ART 22006, Art History I (3)	
22007, Art History II (3)	
V. Social Sciences	9
ECON 22060, Principles of Microeconomics . . . . .	.3
22061, Principles of Macroeconomics . . . . .	.3
SOC 12050, Introduction to Sociology . . . . .	.3
VI. Basic Sciences	9

PHY 11030, Seven Ideas that Shook the Universe 3
 12201, Technical Physics I 3
 Select from LER lab sciences 3

VII. Major Requirements 34
Credits for Associate of Applied Science in Computer Design and Animation Technology.

VIII. Technology Electives 28

TECH 33016, PC Network Engineering 3
 34000, Computer Animation II 3
 34001, Computer Animation III 3
 34002, Advanced CAD II 3
 34003, Animation Theory 3
 34004, Light, Color, Design, Layout 2
 43000, Adv. Animation Development 2
 43001, Tech. of Media. And Film Production 2
 43002, Graphics Design Technology 3
 43003, Mult. & Virtual Reality II 2
 43004, Unix Scripting w/ Applications 2

IX. Related Courses 13

ART 14000, Drawing I 3
 BMRT 11000, Introduction to Business 3
 IERT 22006, Econ. Decision Analysis 3
 TECH 33056, Cooperative Education 2
Choose one from: 2

COMT 21092, Computer Practicum (2)
 IERT 22095, ST: Productivity Software (2)

TOTAL 121

Notes: Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required for graduation with minimum of 2.00 in upper-division TECH courses. Upper-division technology electives must be chosen with faculty adviser.

Electrical/Electronic Engineering Technology Option

I. US 10001, University Orientation 1

II. Composition 9

ENG 10001, 10002, College English I,II 6
 20002, Introduction to Technical Writing 3

III. Mathematics, Logic and Foreign Languages 8-9

MATH 11011, College Algebra (4)
 and
 11022, Trigonometry (2)
 or
 12001, Algebra and Trigonometry (4)
Choose one from: 3-5

MATH 11012, Intuitive Calculus (3)
 12002, Analytic Geometry and Calculus I (5)
 19002, Technical Math II (4)

IV. Humanities and Fine Arts 9

COMM 15000, Theory and Practice of Oral Discourse 3

PHIL 21001, Introduction to Ethics 3
 Choose one Fine Arts Elective 3

V. Social Sciences 9

ECON 22060, Principles of Microeconomics 3
 Select from the LERs 6

VI. Basic Sciences 10

PHY 13001, General College Physics I 5
 13002, General College Physics II 5

VII. Major Requirements 34
Credits for Associate of Applied Science in Electrical/ Electronics Engineering Technology.

VIII. Technology Electives 18

TECH 31020, Automated Manufacturing 3
 33016, PC Network Engineering 3
 33363, Metallurgy & Matl. Science 3
Choose one from: 3

TECH 31000, Cultural Dynamics of Technology (3)
 33056, Cooperative Education (3)
Choose two from: 6

TECH 31032, Power Technology (3)
 33223, Electronic Communication (3)
 43220, Electrical Machinery (3)

IX. General Electives 22-23
Minimum of 12 hours upper-division.

TOTAL	121
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Notes: Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required for graduation with minimum of 2.00 in upper-division TECH courses. Upper-division technology electives must be chosen with faculty adviser. The courses elected to fulfill the curriculum must satisfy university Diversity Requirements.

Manufacturing/Mechanical/Systems Engineering Technology Option

I. US 10001, University Orientation 1

II. Composition 9

ENG 10001, 10002, College English I,II 6
Choose one from: 3

ENG 20001, Business Writing (3)
 20002, Introduction to Technical Writing (3)

ITAP 26638, Business Communications (3)

III. Mathematics, Logic and Foreign Languages 8-9

MATH 11011, College Algebra (4)
 and
 11022, Trigonometry (2)
 or
 12001, Algebra and Trigonometry (4)
Choose one from: 3-5

MATH 11012, Intuitive Calculus (3)
 12002, Analytic Geometry and Calculus I (5)

19002, Technical Math II (4)

IV. Humanities and Fine Arts9

COMM 15000, Theory and Practice of Oral Discourse3

PHIL 21001, Introduction to Ethics3

Choose one Fine Arts elective3

V. Social Sciences9

Select from the LERs9

VI. Basic Sciences10

PHY 13001, General College Physics I5

13002, General College Physics II5

VII. Major Requirements34

Credits from Associate of Applied Science in Manufacturing, Mechanical, or Systems/Industrial Engineering Technology.

VIII. Technology Electives21

Choose from the following:18

TECH 31065, Cast Metals (3)

31020, Automated Manufacturing (3)

31032, Power Technology (3)

32002, Materials and Processes II (3)

33016, PC Network Engineering (3)

33033, Hydraulics and Pneumatics (3)

33363, Metallurgy & Matl. Science (3)

34002, Advanced CAD II (3)

43080, Industrial and Environmental Safety (3)

43220, Electrical Machinery (3)

43550, Computer Aided Manufacturing (3)

Choose one from:3

TECH 31000, Cultural Dynamics of Technology (3)

33056, Cooperative Education (3)

IX. General Electives19-20

Minimum of 6 hours upper-division.

TOTAL	121
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Notes: Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required for graduation with minimum of 2.00 in upper-division TECH courses. Upper-division technology electives must be chosen with faculty adviser. The courses elected to fulfill the curriculum must satisfy university Diversity Requirements.

Plastics Manufacturing Engineering Technology Option

I. US 10001, University Orientation1

II. Composition9

ENG 10001, 10002, College English I,II6

Choose one from:3

ENG 20001, Business Writing (3)

20002, Introduction to Technical Writing (3)

ITAP 26638, Business Communications (3)

III. Mathematics, Logic and Foreign Languages8-9

MATH 11011, College Algebra (4)

and

11022, Trigonometry (2)

or

12001, Algebra and Trigonometry (4)

Choose one from:3-5

MATH 11012, Intuitive Calculus (3)

12002, Analytic Geometry and Calculus I (5)

19002, Technical Math II (4)

IV. Humanities and Fine Arts9

COMM 15000, Theory and Practice of Oral Discourse3

PHIL 21001, Introduction to Ethics3

Choose one Fine Arts elective3

V. Social Sciences9

ECON 22060, Microeconomics3

Select from the LERs6

VI. Basic Sciences9

Select from the LERs9

At least 2 classes must be laboratory science.

VII. Major Requirements34

Credits from Associate of Applied Science in Plastics Manufacturing Engineering Technology.

VIII. Technology Electives15

TECH 31020, Automated Manufacturing (3)

31032, Power Technology (3)

32002, Materials and Processes II (3)

33363, Metallurgy & Matl. Science (3)

43080, Industrial and Environmental Safety (3)

IX. General Electives26-27

Minimum of 12 hours upper-division.

TOTAL	121
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Notes: Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required for graduation with minimum of 2.00 in upper-division TECH courses. The courses elected to fulfill the curriculum must satisfy university Diversity Requirements.

BACHELOR OF SCIENCE DEGREE

Aeronautics

The programs offered under the B.S. in aeronautics consist of four separate areas of study. All four programs lead to a Bachelor of Science in Aeronautics.

Requirements for Admission for High School Students into the Aeronautics Programs

While Kent State University is an open admissions university that offers admission to Ohio students who are graduates of accredited high schools, admission to the aeronautics programs is limited.

ed and highly selective. Only students who have earned a 2.25 high school cumulative GPA will be considered for admission. Students not admitted to the programs may qualify for admission to the university as an undeclared major in the School of Technology. These students may be admitted to the aeronautics programs any time after the first semester of studies if they have earned a cumulative GPA of 2.25 or above.

All applications must include the \$30 application fee, official American College Test (ACT)/Scholastic Aptitude (SAT) scores, and an official high school transcript that shows class rank and coursework in ninth, 10th and 11th grades, as well as the courses that are being taken or will be taken in the senior year. Transcripts that do not show class rank and senior courses cannot be considered.

Requirements for Admission for Transfer Students

Only transfer students with a GPA of 2.25 or above will be considered for admission. This GPA must be based upon a minimum of 24 semester hours of college-level work. (Students with less than 24 semester credit hours will be considered with the high school student pool.)

All applications must include the \$30 application fee and official transcripts showing all previously completed coursework.

All students requesting transfer of credit for technology courses taken at another school shall present a list of such courses to the program adviser for review and assessment. No credit will be given for courses with grades less than C.

Requirements for Admission From Another Program

Students already enrolled at Kent State University who desire to change majors to the aeronautics programs must apply on the appropriate form to the Office of the Dean, School of Technology. Minimum GPA to change major to the aeronautics programs is 2.25. All applications must include official transcripts showing all previously completed coursework.

Aeronautics Programs

The aeronautics programs consist of four separate areas of study: aeronautical studies, aeronautical systems engineering technology, aviation management and flight technology.

Aeronautical Studies

The aeronautical studies program prepares students for entry-level technological positions in aviation and related areas. The program is focused on a fundamental foundation of aeronautically related subjects, but at the same time, provides a significant number of

course electives that allow students to explore other areas of interest or earn a minor in a particular area of study. The program requirements include 35 semester hours of required technology and aeronautics courses, and 38 semester hours of technology and general electives coursework. Students who successfully complete all degree requirements for this program are awarded a Bachelor of Science in Aeronautics with a concentration in aeronautical studies.

I. Composition	9
ENG 10001, 10002, College English I, II	6
20002, Introduction to Technical Writing	3
II. Mathematics, Logic and Foreign Languages	7
MATH 11012, Intuitive Calculus	3
* 12001, Algebra and Trigonometry	4
III. Humanities and Fine Arts (two courses in sequence)	9
COMM 15000, Theory and Practice of Oral Discourse	3
Select 6 hours from Fine Arts LERs.	6
IV. Social Sciences	9
Select 9 hours from Social Sciences LERs.	9
V. Basic Sciences	10
PHY 13001, General College Physics I	5
13002, General College Physics II	5
VI. US 10001, University Orientation	1
VII. Major Requirements	56
Technology Courses	16
TECH 10001, Information Technology	3
13580, Engineering Graphics I	3
20002, Materials and Processes	3
21021, Survey of Electricity and Electronics	4
33033, Hydraulics and Pneumatics	3
Aeronautics Core	22
TECH 15000, Introduction to Aeronautics	3
35020, Aircraft Propulsion Systems	3
35040, Aircraft Systems I	3
35150, Aircraft Structures	3
45030, Aircraft Systems II	3
45150, Applied Flight Dynamics I	3
45291, Aero. Senior Seminar	1
45350, Avionics	3
Technology Electives	18
**Technology electives (18)	
VIII. Non-Major Requirements	20
**General electives	20
TOTAL	121

Students must complete all lower-division math, basic science and technology courses before registering for upper-division technology courses.

A minimum of 39 upper-division hours within the 121 total semester hours are required.

A minimum of 2.25 GPA in the major requirements and a minimum of 2.00 overall GPA are required.

Students must also satisfy the university Diversity Requirements.

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

**Note: A total of at least 17 upper-division hours must be taken in the technology electives area and/or the general electives area.

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

Aeronautical Systems Engineering Technology

The aeronautical systems engineering technology program prepares students to enter the field of aeronautical engineering as technologists with educational experience in the practical application of theoretical principles. The program includes advanced mathematics and physics courses to complement engineering-related courses in aeronautics technology. Students entering this program should have an extensive background in high school mathematics and science.

- I. **Composition** 9
 - ENG 10001, 10002, College English I, II 6
 - 20002, Introduction to Technical Writing 3
- II. **Mathematics, Logic and Foreign Languages** 23
 - CS 10061, Introduction to Computer Programming 3
 - MATH*12001, Algebra and Trigonometry 4
 - 12002, Analytic Geom. and Calculus I 5
 - 12003, Analytic Geom. and Calculus II 5
 - 21001, Linear Algebra 3
 - 22005, Analytic Geom. and Calculus III 3
- III. **Humanities and Fine Arts** 9
 - COMM 15000, Theory and Practice of Oral Discourse 3
 - Select 6 hours from Humanities and Fine Arts LERs. 6
- IV. **Social Sciences** 9
 - ECON 22060, Principles of Microeconomics 3

- 22061, Principles of Macroeconomics 3
- Select 3 hours from the Social Sciences LERs. 3
- V. **Basic Sciences** 13
 - CHEM 10050, Fundamentals of Chemistry 3
 - PHY 23101, General University Physics I 5
 - 23102, General University Physics II 5
- VI. **US 10001, University Orientation** 1
- VII. **Major Requirements:** 60
 - Technology Courses** 28
 - TECH 10001, Information Technology 3
 - 13580, Engineering Graphics I 3
 - 20002, Materials and Processes 3
 - 21021, Survey of Electricity and Electronics 4
 - 23581, Computer Aided Engineering Graphics 3
 - 33033, Hydraulics/Pneumatics 3
 - 33222, Digital Design and Applications 3
 - 33363, Metal. & Material Science 3
 - 33111, Strength of Materials 3
 - Aeronautics Core** 22
 - TECH 15000, Introduction to Aeronautics 3
 - 35020, Aircraft Propulsion Systems 3
 - 35040, Aircraft Systems I 3
 - 35150, Aircraft Structures 3
 - 45030, Aircraft Systems II 3
 - 45150, Applied Flight Dynamics I 3
 - 45291, Aero. Senior Seminar 1
 - 45350, Avionics. 3
 - Related Courses** 10
 - TECH 45121, Adv. Aerospace Propulsion 3
 - 45151, Applied Flight Dynamics II 3
 - 45700, Aircraft Design 4
- VIII. **Non-Major Requirement** 3
 - Technology elective 3

TOTAL 127

Students must complete all lower-division basic science and technology courses before registering for upper-division technology courses.

A minimum of 39 upper-division hours within the 127 total semester hours are required.

A minimum 2.25 GPA in the major requirements and a minimum 2.00 overall GPA are required.

Students must also satisfy the university Diversity Requirements.

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

Aviation Management

The aviation management program prepares students for entry-level positions in aviation and other aviation-related professional fields. This course of study combines technical and aeronautical courses with courses in management and information systems.

Students entering this program should have a technical interest, mathematical proficiency and an ability to develop analytical and communicative capabilities.

I. Composition 9
 ENG 10001, 10002, College English I, II 6
Choose one from: 3
 20002, Introduction to Technical Writing (3)
 20001, Business Writing (3)

II. Mathematics, Logic and Foreign Languages 10
 CS 10061, Introduction to Computer Programming 3
 MATH*12001, Algebra and Trigonometry 4
 11012, Intuitive Calculus 3

III. Humanities and Fine Arts 9
 COMM 15000, Theory and Practice of Oral Discourse 3
 Select 6 hours from Humanities and Fine Arts LERs. 6

IV. Social Sciences 9
 ECON 22060, Principles of Microeconomics 3
 22061, Principles of Macroeconomics 3
 PSYC 11762, General Psychology 3

V. Basic Sciences 10
 PHY 13001, General College Physics I 5
 13002, General College Physics II 5

VI. US 10001, University Orientation 1

VII. Major Requirements 71
Technology Courses 19
 TECH 10001, Information Technology 3
 13580, Engineer. Graphics I 3
 20002, Materials and Processes 3
 21021, Survey of Electricity and Electronics 4
 23581, Computer Aided Engineering Graphics 3
 33033, Hydraulics/Pneumatics 3

Aeronautics Core 22
 TECH 15000, Introduction to Aeronautics 3
 35020, Aircraft Propulsion Systems 3
 35040, Aircraft Systems I 3
 35150, Aircraft Structures 3
 45030, Aircraft Systems II 3
 45150, Applied Flight Dynamics I 3
 45291, Aero. Senior Seminar 1
 45350, Avionics. 3
Related Courses 30
 M&IS 24056, Fundamentals of Business Statistics 3
 24060, Systems Analysis I 3
 24070, Principles of Systems Development 3
 24163, Principles of Management 3
 34032, Data and File Technology 3
 34045, Small Systems Technology 3
 34053, Data Integration 3
 34060, Operations Management 3
 TECH 35340, Airport Management 3
 35341, Air Trans. Systems 3
VIII. Nonmajor Requirements 2
 Technology electives 2
TOTAL 121

Students must complete all lower-division math, basic science and technology courses before registering for upper-division technology courses.

A minimum of 39 upper-division hours within the 121 total semester hours are required.

A minimum of 2.25 GPA in the major requirements and a minimum of 2.00 overall GPA are required.

Students receive a minor in computer information systems from the College of Business Administration with this option.

Students must also satisfy the university Diversity Requirements.

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

Flight Technology

The flight technology program prepares students for careers in flight operations as a professional pilot. This course of study enables students to qualify for a wide range of Federal Aviation Administration flight and ground ratings required for giving professional flight and ground instruction, commercial/instrument operations in commercial aviation and regional airline operations, as well as qualifying for entrance to military flight schools. This option stresses subjects associated with flight systems, power plants, structures and electronics. Students entering this program should have a strong desire for excellence in aviation, as well as flying skills required of a professional pilot. This option is particularly designed for those students who aspire to become professional pilots.

I. Composition	9
ENG 10001, 10002, College English I, II	6
20002, Introduction to Technical Writing	3
II. Mathematics, Logic and Foreign Languages	7
MATH 11012, Intuitive Calculus	3
* 12001, Algebra and Trigonometry	4
III. Humanities and Fine Arts	9
COMM 15000, Theory and Practice of Oral Discourse	3
Select 6 hours from Humanities and Fine Arts LERs.	6
IV. Social Sciences	9
ECON 22060, Principles of Microeconomics	3
22061, Principles of Macroeconomics	3
PSYC 11762, General Psychology	3
V. Basic Sciences	10
PHY 13001, General College Physics I	5
13002, General College Physics II	5
VI. US 10001, University Orientation	1
VII. Major Requirements:	81
Technology Courses	10
TECH 10001, Information Technology	3
21021, Survey of Electricity and Electronics	4
33033, Hydraulics / Pneumatics	3
Aeronautics Core	22
TECH 15000, Introduction to Aeronautics	3
35020, Aircraft Propulsion Systems	3
35040, Aircraft Systems I	3
35150, Aircraft Structures	3
45030, Aircraft Systems II	3
45150, Applied Flight Dynamics I	3
45291, Aerospace Senior Seminar	1
45350, Avionics	3
Flight Technology Courses	37
TECH 15740, Elements of Flt. Theory	5
15741, Priv. Pilot Flight	3

25250, Elements of Aviation Weather	2
25743, Commercial Pilot Flight I	2
35644, Instrument Flight Theory	3
35645, Instrument Pilot Flight	2
35647, Commercial Pilot Flight II	2
35746, Commercial Pilot Theory	2
35747, Commercial Pilot Flight III	2
45648, Theory of Flight Instruction	2
45649, Flight Instructor - Airplanes	2
45653, Multi-Engine Pilot Flight	1
45710, Turbine Engine Theory and Operation	2
45711, Turbine Engine Theory and Operation Lab	1
45720, Crew Resource Management	2
45721, Crew Resource Management Lab	1
Choose one from:	3
45730, Applied Transport Category Aircraft Systems (3) Display Systems (3)	
45740, Flight Management and Electronic Display Systems (3)	
Related Courses	12
TECH 35341, Air Trans. Systems	3
45130, Phys. and Human Factor of Flight	3
45151, Applied Flight Dynamics II	3
45250, Aviation Law and Safety	3
VIII. Non-Major Requirements	2
Technology electives (2)	
TOTAL	128

Students must complete all lower-division math, basic science and nonflight technology courses before registering for non-flight upper-division technology courses.

A minimum of 39 upper-division hours within the 128 total semester hours are required.

A minimum 2.25 GPA in the major requirements and a minimum 2.00 overall GPA are required.

Students must also satisfy the university Diversity Requirements.

**MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.*

BACHELOR OF SCIENCE DEGREE

Industrial Technology

Industrial technology programs are closely related to the fields of electronic, industrial and manufacturing engineering and prepare students for employment in technical, scientific and managerial positions. Each of the industrial technology concentrations con-

sists of a liberal arts base combined with appropriate studies in the natural sciences, technology and management.

The industrial technology graduate may be employed in various positions, including the following: manufacturing or electronics technologist, technical sales representative, engineering assistant, technical supervisor/manager, computer-aided design (CAD) specialist and entry-level engineer. Graduates may be involved in research and development (R&D) activities while working closely with engineering personnel.

Within the industrial technology major, students may choose either the electronics concentration or the manufacturing engineering technology concentration. Additionally, a "2+2" concentration is available for graduates of associate's degree programs.

Electronics Concentration

I. Composition 9
 ENG 10001, 10002, College English I, II 6
 20002, Introduction to Technical Writing 3

II. Mathematics, Logic and Foreign Languages 20
 CS 10061, Introduction to Computer Programming 3
 MATH 12001, Algebra and Trigonometry 4
 12002, Analytic Geometry and Calculus I 5
 12003, Analytic Geometry and Calculus II 5
 21001, Linear Algebra with Applications 3

III. Humanities and Fine Arts 9
 COMM 15000, Theory and Practice of Oral Discourse 3
 Select 6 hours from the Humanities and Fine Arts LERS. 6

IV. Social Sciences 9
 ECON 22060, Principles of Microeconomics 3
 22061, Principles of Macroeconomics 3
 Social Science elective from LERS 3

V. Basic Sciences 15
 CHEM 10060, General Chemistry I 4
 10062, General Chemistry I Lab 1
 PHY 23101, 23102, General University Physics I, II 10

VI. US 10001, University Orientation 1

VII. Major Requirements 41
Technology Core:
 TECH 10001, Information Technology 3
 13580, Engineering Graphics I 3
 20004, Electrical Circuits I 3
Technology:
 TECH 23224, Electrical Circuits II 3
 23581, Computer Aided Engineering Graphics 3
 33220, Analog Electronics 3
 33222, Digital Design and Applications 3

33223, Electronic Communication 3
 33225, Industrial Control Systems 3
 33580, Engineering Graphics for Electronics 3
 43026, Microprocessor Systems 3
 43220, Electrical Machinery 3
 43221, Control Systems and Robotics 3
 43800, Applied Engineering Technology Seminar 2

VIII. Business: 6
 M&IS 24056, Principles of Business Statistics 3
 24163, Principles of Management 3

IX. Electives 16
 At least 1 hour from technology courses.

TOTAL 126

Students should complete technology core sequence and all required lower-division math and science courses before registering for upper-division technology courses.

Minimum of 39 upper-division hours required.

Minimum 2.00 overall GPA required.

Minimum of 2.25 required in major and field of concentration GPAs.

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

Manufacturing Engineering Technology Concentration

I. Composition 9
 ENG 10001, 10002, College English I, II 6
 20002, Introduction to Technical Writing 3

II. Mathematics, Logic and Foreign Languages 17
 CS 10061, Introduction to Computer Programming 3
 MATH 12001, Algebra and Trigonometry 4
 12002, 12003, Analytic Geometry and Calculus I, II . . . 10

III. Humanities and Fine Arts 9
 COMM 15000, Theory and Practice of Oral Discourse 3
 Select 6 hours from the Humanities and Fine Arts LERS. 6

IV. Social Sciences 9
 ECON 22060, Principles of Microeconomics 3
 22061, Principles of Macroeconomics 3

Plus 3 hours of Social Science from the LERs. 3

V. **Basic Sciences**16

CHEM 10050, Fundamentals of Chemistry 3

PHY 23101, 23102, General University Physics I, II 10

32551, Applied Engineering Mechanics 3

VI. **US 10001, University Orientation** 1

VII. **Technology Core**12

TECH 10001, Information Technology 3

13580, Engineering Graphics I 3

20002, Materials and Processes 3

20004, Electrical Circuits I 3

VIII. **Technology**38

TECH 23224, Electrical Circuits II 3

23581, Computer-Aided Engineering Graphics 3

31020, Automated Manufacturing 3

31065, Cast Metals 3

33033, Hydraulics/Pneumatics 3

33363, Metallurgy and Material Science 3

33111, Strength of Materials 3

43080, Industrial and Environmental Safety 3

43220, Electrical Machinery 3

43550, Computer Aided Manufacturing 3

43580, Computer-Aided Machine Design 3

43700, Computer Integrated Manufacturing 3

43800, Applied Engineering Technology Seminar 2

IX. **Business:** 9

ACCT 23020, Introduction to Financial Accounting 3

M&IS 24056, Principles of Business Statistics 3

24163, Principles of Management 3

X. **Electives** 10

Choose 10 hours from the following:10

M&IS 34060, Operations Management (3)

34180, Human Resource Mgmt. (3)

44063, Quality and Cost Control (3)

TECH 31000, Cultural Dynamics of Technology (3)

31016, Manufacturing Tech. (3)

33056, Cooperative Education (1-6)

33220, Analog Electronics (3)

33222, Digital Design and Applications (3)

33223, Elect. Communications (3)

TOTAL **130**

Students must complete technology core sequence and all required lower-division math and science courses before registering for upper-division technology courses.

Minimum of 39 upper-division hours required.

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

"2+2" Concentration for Associate's Degree Graduates

The "2+2" concentration in industrial technology provides a course of study for associate's degree graduates who desire to complete a Bachelor of Science in Industrial Technology. It allows graduates to apply all or nearly all of the coursework completed in the associate's degree program toward the B.S. degree, broadens students' backgrounds and allows the students to gain additional technical and managerial depth. A unique feature of the Kent State University program is its flexibility, including 15 upper-division technical elective hours that the students select in consultation with a School of Technology adviser.

Industrial Technology "2+2"

I. **Composition** 9

ENG 10001, 10002, College English I, II 6

20002, Introduction to Technical Writing 3

II. **Mathematics, Logic and Foreign Languages** 9

MATH* 12001, Algebra and Trigonometry 4

* 12002, Analytic Geometry and Calculus I 5

III. **Humanities and Fine Arts**9

COMM 15000, Theory and Practice of Oral Discourse 3

Select 6 hours from Humanities and Fine Arts LERs. 6

IV. **Social Sciences** 9

ECON 22060, Principles of Microeconomics 3

22061, Principles of Macroeconomics 3

Select 3 hours from Social Sciences LERs. 3

V. **Basic Sciences**10

PHY * 13001, 13002, General College Physics I, II 10

VI. **US 10001, University Orientation** 1

VII. **Major Requirements:**34

Courses accepted by the School of Technology as transfer credit.

VIII. **Technical Electives (Upper Division)****15

IX. **Business:**21

Accounting, economics, finance, management and information systems. At least 12 hours must be upper-division.

X. General Electives	12
TOTAL	129

**Or equivalent.*

***Technical electives must be chosen in consultation with a faculty adviser.*

Minimum of 27 upper-division hours required (with associate's degree).

American Assembly of Collegiate Schools of Business accreditation standards prohibit nonbusiness majors from taking more than 25 percent of their degree requirements in business courses. Therefore, no more than 30 semester credit hours may be counted toward stated degree requirements.

Management Technology "2+2"

I. Composition	9
ENG 10001, 10002, College English I, II . . . . .	.6
**** 20002, Introduction to Technical Writing . . . . .	.3
II. Mathematics, Logic and Foreign Languages	9
MATH* 11011, College Algebra . . . . .	.4
<i>Choose one from</i> . . . . .	.2-4
* 11022, Trigonometry (2)	
12001, Algebra and Trigonometry (4)	
<i>Choose one from</i> . . . . .	.3-5
* 11012, Intuitive Calculus (3)	
12002, Analytic Geometry and Calculus I (5)	
III. Humanities and Fine Arts	9
COMM 15000, Theory and Practice of Oral Discourse . . . . .	.3
Select 6 hours from Humanities and Fine Arts LERs . . . . .	.6
IV. Social Sciences	9
ECON 22060, Principles of Microeconomics . . . . .	.3
22061, Principles of Macroeconomics . . . . .	.3
PSYC 11762, General Psychology . . . . .	.3
V. Basic Sciences	10
Select from PHY, CHEM, BSCI	
VI. US 10001, University Orientation	1
VII. Major Requirements	34
ACTT 11000, Accounting I — Financial . . . . .	.4
BMRT 11000, Introduction to Business . . . . .	.3
11009, Introduction to Management Technology . . . . .	.3
21000, Business Law and Ethics I . . . . .	.3

21004, Introduction to Business Statistics . . . . .	.3
21006, Human Resources Management . . . . .	.3
21008, Case Studies in Management Technology . . . . .	.3
21009, Seminar in Management Technology . . . . .	.3
21011, Fundamentals of Financial Management . . . . .	.3
21050, Fundamentals of Marketing Technology . . . . .	.3
21052, Professional Selling Techniques . . . . .	.3
VIII. Technical Requirements	15
TECH**20002, Materials and Processes . . . . .	.3
31016, Manufacturing Technology . . . . .	.3
31020, Automated Manufacturing . . . . .	.3
33056, Cooperative Education —	
Professional Development . . . . .	.3
43080, Industrial and Environmental Safety . . . . .	.3
Technology elective (upper division) . . . . .	.3
IX. Business Requirements***	21
ACCT 23021, Introduction to Managerial Accounting . . . . .	.3
COMT 11000, Introduction to Computer Systems . . . . .	.3
FIN 36053, Business Finance . . . . .	.3
M&IS 34060, Operations Management . . . . .	.3
44063, Quality and Cost Control . . . . .	.3
MKTG 35025, Supply Chain Management . . . . .	.3
Business elective (upper division) . . . . .	.3
<i>Recommend: M&IS 34056, Intermediate Statistics</i>	
X. General Electives	12
TOTAL	129

**May substitute MATH 11011 and 11022 for 12001; may substitute MATH 11012 for 12002.*

***May substitute MERT 12004 for TECH 20002.*

***This is an associate's degree requirement and does not apply to this B.S. degree. It is however, a prerequisite to TECH 31016.*

***TECH 13580 should be taken before MERT 12004.*

****Completion of all prerequisites required.*

*****May substitute ITAP 26638 for ENG 20002.*

MINORS IN THE SCHOOL OF TECHNOLOGY

Technology Education Licensure

This minor is for students planning to become technology education teachers. Required technical content is found in the B.S. in technology major on Page 335.

EDPF 19525, Inquiry into the Profession4
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	29525, Inquiry into Teaching and Learning3
	39525, Inquiry into Schooling3
HED	42575, Health and Learning: Strategies for Students and Teachers . . . . .	.3
SPED	23000, Intro. to Exceptionalities . . . . .	.3
TECH	41001, Methods in Technology Education . . . . .	.3
	41002, Organization in Technology Education . . . . .	.3
	41051, Foundation and Contemporary Theories of Technology Education . . . . .	.3
	41052, Technology Education for Elementary School . . .	.3
	46031, Student Teaching . . . . .	.9
	49525, Inquiry into Professional Practice . . . . .	.3
	TOTAL	40

Note: The Praxis II Examination Principles of Learning and Teaching (5-9 or 7-12) is required for licensure.

Electronic Technology

Prerequisite:

MATH*12001, Algebra and Trigonometry (4)

Courses:

TECH	20004, Electrical Circuits I . . . . .	.3
	23224, Electrical Circuits II . . . . .	.3
	33220, Analog Electronics . . . . .	.3
	33222, Digital Designs and Applications . . . . .	.3
	33580, Engineering Graphics for Electronics . . . . .	.3
	43026, Microprocessor Systems . . . . .	.3
	TOTAL	18

*Or equivalent.

Flight Technology

TECH	15740, Elements of Flight Theory	5
	15741, Private Pilot Flight	3
	25250, Elements of Aviation Weather	2
	25743, Commercial Pilot Flight I	2
	35644, Instrument Flight Theory	3
	35645, Instrument Pilot Flight	2
	35647, Commercial Pilot Flight II.	2
	35746, Commercial Pilot Theory	2
	35747, Commercial Pilot Flight III	2
	TOTAL	23

Technology

MATH**12001, Algebra and Trigonometry	4
TECH 10001, Information Technology	3
13580, Engineering Graphics I	3
20001, Energy/Power	3
20002, Materials and Processes	3
21021, Survey of Electricity and Electronics	4
23581, Computer-Aided Engineering Graphics	3
31000, Cultural Dynamics of Technology	3
Technology electives	2
TOTAL	28

**If MATH 12001 has been taken previously, these hours must be completed as technology electives.

MINORS IN OTHER COLLEGES/SCHOOLS

In addition to the departmental minors, undergraduate students in the School of Technology can select from a wide range of minors offered by other colleges and schools at Kent State University.

Arts and Sciences

The following minors within the College of Arts and Sciences are available to all undergraduate students at Kent State University. Please see Pages 150-170 for program requirements.

- African Studies
- American Sign Language
- American Studies
- Ancient, Medieval and Renaissance Studies
- Anthropology
- Applied Conflict Management
- Applied Mathematics
- Asian Studies
- Biological Sciences
- British Studies
- Business French
- Business German
- Business Russian
- Business Spanish
- Cartography
- Chemistry
- Classics
- Climatology
- Comparative Literature
- Computer Science
- Economics
- English
- French

Geography
 Geology
 German
 German Studies
 Greek
 Health Care Ethics
 Hellenic Studies
 History
 Jewish Studies
 Justice Studies
 Latin
 Lesbian, Gay, Bisexual and Transgendered Studies
 Lithuanian Studies
 Mathematics
 North Atlantic Security Studies
 Pan-African Studies
 Paralegal Studies
 Philosophy
 Physics
 Political Science
 Pre-Law
 Psychology
 Religion Studies
 Romanian Studies
 Russian
 Russian Studies
 Sociology
 Spanish
 Urban Studies and Planning
 Women's Studies
 The Writing Minor

Business Administration

The following minors within the College of Business Administration are available to all undergraduate students at Kent State University. Please see Pages 189-194 for program requirements.

Accounting
 Business
 Computer Information Systems
 Economics
 Finance
 Human Resource Management
 International Business
 Management
 Marketing
 Military Studies

Communication and Information

The following minors within the College of Communication and Information are available to all undergraduate students at Kent State University. Please see Pages 204-205 for program requirements.

Advertising
 Communication Studies
 Design
 Electronic Media
 Media Literacy
 Photo Illustration
 Public Relations
 Visual Journalism

Education

The following minors within the College of Education are available to all undergraduate students at Kent State University. Please see Page 264 for program requirements.

Community Health Education
 Human Sexuality

Fine and Professional Arts

The following minors within the College of Fine and Professional Arts are available to all undergraduate students at Kent State University. Please see Pages 276-278 for program requirements.

Art History
 Crafts
 Dance*
 Family, Food and Nutritional Studies
 Gerontology
 Hospitality Food Service Management
 Music*
 Studio Art
 Theatre

**Auditions are required before acceptance into the dance or music minors.*

School of Exercise, Leisure and Sport

The following minors within the School of Exercise, Leisure and Sport are available to all undergraduate students at Kent State University. Please see Pages 299-301 for program requirements.

Athletic Coaching—Non-PE Majors
 Leisure Studies
 Sport Management for Non-Majors
 Sports Medicine



THE REGIONAL CAMPUSES
 Advising Offices are Located at
 the Individual Campuses.

See the next two pages for
 the campus nearest you.
www.rc.kent.edu

THE REGIONAL CAMPUS NETWORK

The Regional Campuses are a network of seven community-oriented institutions within the university. Three of them, the Ashtabula, East Liverpool and Salem campuses, are named for the cities where they are located. The remaining four, Geauga, Stark, Trumbull and Tuscarawas campuses, are named for their counties and are located near the cities of Burton, Canton, Warren and New Philadelphia, respectively.

All of the Regional Campuses are accredited by the The Higher Learning Commission and a member of the North Central Association. Some associate's degree programs also have earned specific accreditation. The nursing program is accredited by the National League for Nursing, and the electrical/electronics and the mechanical engineering technology programs at the Tuscarawas Campus are accredited by the Technology Accreditation Commission of the Accreditation Board of Engineering and Technology (TAC/ABET). Salem's radiologic technology program is accredited by the Committee on Allied Health Education and Accreditation. The American Physical Therapy Association has accredited East Liverpool's program. East Liverpool's occupational therapy assisting program is accredited by the American Occupational Therapy Association Inc. in collaboration with the Committee on Allied Health Education and Accreditation and the American Medical Association.

MISSION

The mission of the Regional Campuses is to extend to the residents of Northeast Ohio access to the quality higher education programs and services of Kent State University. The campuses share the liberal education goals of the university and strive to meet the needs of society with technical programs that help prepare a paraprofessional work force. The campuses are an entry point to higher education for high school graduates, and they provide access for persons who see the campus as a way to build a secure and better life for themselves. The campuses provide coursework at the freshman and sophomore levels in technical and baccalaureate areas, in the university's 36-hour LERs, associate's degree programs, continuing study and basic skills classes, as well as selected junior, senior and graduate courses. For students, the campuses are close to home and affordable, and many enroll on a part-time basis. The campuses provide the breadth of programs and services necessary for a successful college experience, have the distinctive feature of being part of the larger university and provide their communities with public service activities of an educational nature for personal growth and development.

THE CAMPUSES

The Ashtabula Campus

3325 W. 13th St., Ashtabula, OH 44004, (440) 964-3322, (440) 964-4269 (FAX), www.ashtabula.kent.edu. The Ashtabula Campus occupies an 80-acre site on the shores of Lake Erie. It is comprised of three buildings: Main Hall, a large three-winged structure radiating from an open courtyard; a library; and a technology and art building. The site also features an outdoor performing arts platform

located in a large grove, baseball diamonds and tennis courts. In addition to offering a variety of cultural, social and student activities, the campus also offers academic support services, continuing studies, developmental education, certificate programs, the first two years of most baccalaureate programs, and two-year associate's degrees in business, engineering, human services, nursing, physical therapy assisting and computer technologies.

The East Liverpool Campus

400 E. 4th St., East Liverpool, OH 43920, (330) 385-3805, (330) 385-6348 (FAX), www.kenteliv.kent.edu. Overlooking the Ohio River from its perch at the edge of historic East Liverpool, the campus is a hub of activity from early morning until late evening as students come together for exceptionally high-quality instruction. Classes are conveniently scheduled to accommodate today's hectic lifestyles, allowing students with job and family responsibilities to enjoy the advantages of higher education.

Kent State East Liverpool prides itself on its small class sizes, outstanding faculty and a sense of community. The campus is composed of three buildings, including the recently renovated Mary Patterson building. This \$4 million project has enabled the campus to offer the most up-to-date technology in distance learning, expanding the campus' ability to offer a diversity of courses.

The choices at Kent State East Liverpool are limitless. In addition to completing general studies courses that help students work toward almost 170 baccalaureate programs universitywide, students can choose to complete a wide range of associate's degree programs including accounting, business, computer technology, legal assisting, nursing, occupational therapy assisting, justice studies and physical therapy assisting. Students can complete coursework leading to selected bachelor degrees in areas such as technology, business management, justice studies and integrated health studies. Graduate-level coursework leading to master's degrees in technology and education is also offered.

The Geauga Campus

14111 Claridon-Troy Road., Burton Twp., OH 44021, (440) 834-4187, (440) 951-1447 (Cleveland), (440) 834-8846 (FAX), (440) 834-4486 (TDD), www.geauga.kent.edu. The Geauga Campus, which lies at the heart of Ohio's maple syrup country, provides easy access to urban, suburban and rural areas. In addition to offering several cultural, social and student activities, the campus also offers training for area businesses and industries, academic sup-

port services, developmental education, certificate programs, the first two years of baccalaureate programs, and programs in business management, computer technologies, horticulture and technical studies.

The Salem Campus

2491 SR 45 South, Salem, OH 44460, (330) 332-0361, (330) 332-9256 (FAX), www.salem.kent.edu, e-mail ask-us@salem.kent.edu. The Salem Campus offers the first two years of study in most Kent State University baccalaureate programs, as well as selected upper-division and graduate courses. Located on a 96-acre site just two miles south of the city, the campus features a lake for both fun and educational activities. The grounds include an arboretum—a 25-acre mixed hardwood forest used by students for studies and recreation. A nature trail winds through the campus, attracting both bird watchers and runners. Students may use the full-sized gym, weight/fitness room, racquetball courts and outdoor tennis courts to stay fit. The student activities center features Ping-Pong, pool tables, big-screen TV and arcade games for relaxation between classes. In addition to offering a variety of cultural, social and student activities, the campus offers an honors program, continuing studies, liberal education courses, academic support services, developmental education and associate's degree programs in business, engineering, education, horticulture, human services, radiologic technology and computer technologies. Students also can complete four bachelor's and two master's degree programs on campus.

The Stark Campus

6000 Frank Ave. NW, Canton, OH 44720, (330) 535-3377 (Akron) or (330) 499-9600 (Canton), (330) 494-6121 (FAX), www.stark.kent.edu. Kent State Stark offers the first two years of study in most Kent State University baccalaureate programs, as well as selected upper-division and graduate courses. Located on a 200-acre site in rolling terrain just south of the Akron-Canton Regional Airport, the Stark Campus is the largest of Kent State's Regional Campuses. The campus maintains arrangements with numerous community, cultural and business organizations to offer a wide range of programs and services to the local area. In addition to offering a variety of cultural, social and student activities, the campus also offers corporate and community services, management and small business development expertise, developmental education and academic support services.

The Trumbull Campus

4314 Mahoning Ave. NW, Warren, OH 44483, (330) 847-0571 (Warren), (330) 847-6172 (FAX), www.trumbull.kent.edu. Kent State Trumbull is located just north of the Route 5 bypass on State Route 45. Trumbull Campus students have more than 170 major career fields to explore. Offering the first two years of baccalaureate

degree programs, the campus also awards associate's degrees in 13 areas of study, selected graduate courses, developmental education courses, a varied continuing studies program and a strong liberal arts core. Campus facilities include a theater, tennis courts and a one-mile fitness trail. The campus also offers a variety of social and cultural activities for area residents and a wide variety of student activities, academic support services and programs for business and industry.

The Tuscarawas Campus

330 University Drive NE, New Philadelphia, OH 44663, (330) 339-3391, (330) 339-3321 (FAX), www.tusc.kent.edu. The Tuscarawas Campus occupies a site that is within a few minutes of a number of important historical areas, including the Ohio Outdoor Drama, which performs "Trumpet in the Land" during the summer; Schoenbrunn Village, Ohio's first European settlement; the airport where John Glenn, who was America's first man into orbit, took his first flying lessons; and the Warther Museum, famous for its collection of carvings. In addition to a variety of cultural, social and student activities, the campus offers continuing studies, academic support services, developmental education, certificate programs, the first two years of baccalaureate programs, and programs in business, computer, engineering technologies, environmental technology and nursing.

SCHOOL OF TECHNOLOGY

Kent State University's School of Technology, Van Deusen Hall, Kent, OH, (330) 672-2892, www.tech.kent.edu. As part of the Regional Campus network, the School of Technology offers technology-based programs that will provide students with the skills needed to compete in today's job market. With more than 25 programs offered at the certificate, associate's, bachelor's and master's degree levels throughout Kent State's eight-campus network, a talented faculty and flexible class schedules that include evening, weekend, distance learning and Web-based classes, the School of Technology has a program to match your needs and interests. (*The undergraduate programs are described under School of Technology.*)

On the Kent Campus, the School of Technology offers four-year programs in aeronautics, industrial technology, and technology. At Kent State's seven Regional Campuses, the school offers the following two-year degrees: *Associate of Applied Business*, *Associate of Applied Science* and the *Associate of Technical Studies*. Programs in these areas include technology, computer technology, business technology, industrial technology, engineering technology and environmental technology. Many of the credits earned in the school's associate's degrees can be applied toward the baccalaureate completion program for a B.S. in technology or industrial technology.

ADMISSION

Students interested in attending a Regional Campus may obtain admission forms from any of the campuses. Admission is open to anyone with a high school diploma or its equivalent. Part-time early admission opportunities are available for qualified high school students in consultation with an adviser. In programs with special admission requirements, admission decisions and judgments, which will be made by the director of the program following normal faculty consultative procedures, take into account factors such as life experience, level of motivation and concern for underrepresented groups in the program, as well as indicators such as GPA or ACT score.

Each Regional Campus has staff members available to discuss admissions, financial aid opportunities and programs with prospective students.

Registration dates, times, procedures and access methods are similar to those of the Kent Campus. Registration information at a particular campus can be obtained from that campus.

Because the seven Regional Campuses and the Kent Campus comprise one university system, access and mobility among these campuses is encouraged and facilitated. Even so, there are some differences between the Kent Campus and the Regional Campuses in freshman and transfer admission requirements.

KENT CAMPUS REFERRALS

Freshman admission eligibility at the Kent Campus is based upon an applicant's cumulative high school GPA and, in some cases, standardized test scores and the college preparatory curriculum. Students not meeting the freshman admission criteria for the Kent Campus who wish to enter the Kent State University system must enroll for at least one semester at a Regional Campus. Enrollment at the Regional Campuses permits students to take advantage of smaller class sizes, more individualized advising services and a wider range of developmental programs.

For the deferred freshman or transfer student who enrolls at a Regional Campus to obtain the best possible foundation for academic success, it is recommended that the student complete the following minimum academic achievements before enrolling at the Kent Campus:

1. Successfully complete any developmental coursework as prescribed by an academic adviser.
2. Successfully complete 12 semester hours of coursework.
3. Achieve a minimum cumulative GPA of 2.00.

Students are strongly encouraged to work closely with their academic adviser in planning for the transition to the Kent Campus.

STUDENT SERVICES AND FINANCIAL AID

Each Regional Campus provides a number of student services. One of the most important services is providing information about financial aid and scholarships. For students who qualify, a number of financial aid opportunities are available, including the Federal Perkins Loan, the Ohio Instructional Grant Program, the Federal Pell Grant Program and other special aid programs. Financial help may also be available through the Federal College Work-Study Program or through other part-time job opportunities. Local employers often seek part-time help through Regional Campus offices.

While each campus has scholarship funds available, the amount and number of scholarships and the requirements for them vary considerably. All of the campuses have funds available for short-term loans. Because of the variety in number and character of these programs, it is suggested that interested students contact the financial aid adviser of the campus they wish to attend.

Other student services at the Regional Campuses include, but are not limited to, preadmission counseling, academic advising, child care and career counseling.

ACADEMIC SUPPORT SERVICES

An important feature of the Regional Campuses is a commitment to help students become successful. Many students enter directly from high school, while others combine full-time jobs and families with classwork. Success in college depends largely upon skills in reading, studying, mathematics and composition.

Basic Skills Assessment: Free testing is available and is required of all students to assess learning skills. This information is used by students and advisers to determine course placement. If testing shows the need for additional preparation in reading, studying, mathematics or composition, support courses are available to meet these needs and will be required.

Academic Support Courses:

MATH 10004, Developmental Mathematics, 4 credit hours. This course focuses on a review of arithmetic and an introduction to algebra. It covers real numbers, integers, equations and decimals. The hours are not counted toward graduation. Prerequisite: assessment testing or permission.

ENG 10000, Introduction to College English, 3 credit hours. This course examines the structure of the sentence and the paragraph, as well as grammar and its mechanics. Prerequisite: test score.

MATH 10005, Introduction to College Math, 3 credit hours. The topics included in this course are: number systems, exponents, polynomials, the Cartesian coordinate system, linear and quadratic

equations and inequalities. Prerequisite: appropriate placement test score or grade of C or better in MATH 10004; no previous mathematics courses.

US 10003, Reading Strategies for College Success, 3 credit hours. Emphasis in this course is placed on improving reading comprehension. Prerequisite: assessment testing or permission.

US 10006, Study Strategies for College Success, 3 credit hours. This course assists students to develop the reading skills necessary for successful completion of college coursework. Prerequisite: assessment testing or permission.

College credit is awarded for these courses; however, their application toward meeting degree requirements varies by program.

Support Services: These services include peer tutors, who are available for certain courses, and special assistance in writing, reading and mathematics. Also available are skill development centers, learning centers and workshops in writing.

University Orientation: US 10001 (University Orientation) is required of all freshmen and transfer students entering the university with 24 semester hours or less. It is designed to help make the transition to college; to familiarize individuals with campus life, services and expectations; and to suggest techniques that can improve student success.

Advising

Regional Campuses consider advising to be an essential component in student success. Professional staff provide general advising, while faculty have primary responsibility for major advising.

Cost

Because the university is state-supported, fees are adjusted to provide quality education at the lowest possible cost. One important advantage to students attending a Regional Campus is that they can live at home, thus saving room and board expenses.

STUDENT DISABILITY SERVICES

The Regional Campuses of Kent State University are committed to providing equal access to students with disabilities. Each campus has a student disability services coordinator who works with students to identify appropriate academic accommodations and support services to foster success at the university. Services for students with disabilities are determined by appropriate educational, medical and/or psychological documentation provided by the student. After documentation is reviewed and the disability is verified, students receive a letter of accommodations to present to instructors, and instructors then will work with students to meet

their individual needs in the classroom. If students are requesting accommodations, it is suggested that they make contact with the student disability services coordinator on the campus they plan to attend at least two months prior to enrollment so that accommodations can be in order at the beginning of the semester. Contact the student disability services coordinator for more information.

THE ASSOCIATE'S DEGREE

Associate's degrees are degrees awarded for the successful completion of 61 or more semester hours of coursework. They are designed to fulfill two major purposes: to permit students to complete the freshman and sophomore years of a baccalaureate program; or to prepare them for immediate employment in a technology field.

While associate's degrees are awarded after the successful completion of at least 61 semester hours, it should be noted that most programs actually require additional hours to complete. Students who are studying part time should expect to take more than two years to complete their programs.

Baccalaureate Study on Regional Campuses

Each Regional Campus offers programs designed to complete the freshman and sophomore years of most of the baccalaureate degrees offered by the university. The intention of such programs is to provide students interested in eventually obtaining a four-year degree the opportunity of beginning it while remaining at home. It is expected that such students eventually will transition to the Kent Campus or transfer to another baccalaureate degree-granting institution to complete the degree.

Completion of the freshman and sophomore years of a baccalaureate degree program leads to the award of the Associate of Arts or Associate of Science degrees.

Associate of Arts: This degree is awarded to students who successfully complete a minimum of 61 semester hours toward the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Business Administration, the Bachelor of General Studies or the Bachelor of Music degrees.

Associate of Science: This degree is awarded to students who successfully complete a minimum of 61 semester hours toward a Bachelor of Science degree.

Baccalaureate Degree Completion Programs

Several baccalaureate degree programs at Kent State University often can be completed with approximately two years of additional full-time study after completion of an associate's degree in the technologies at Regional Campuses. *Some course selections lead-*

ing to associate's degrees are more applicable than others as components of baccalaureate degrees, and exact requirements for additional study vary. Students interested in baccalaureate degree completion programs should see an adviser at the earliest possible date.

Liberal Education Requirements

Candidates for the Associate of Arts and the Associate of Science degrees must fulfill the LERs. Regional Campus students who intend to earn a bachelor's degree at Kent also will be expected to fulfill these requirements. (See Pages 77-80 of this *Catalog* for specific information about the LERs.)

Students in Associate of Applied Science and Associate of Applied Business degree programs are expected to choose their general studies courses from the Liberal Education Requirements list. *All exceptions must be approved by the students' academic adviser.* The availability of specific LER courses varies by campus.

Technical Programs

The purpose of associate's degree programs in technical areas is to prepare graduates for immediate employment. To accomplish this, the following associate's degrees are offered:

Associate of Applied Business: This degree is awarded to students who successfully complete prescribed coursework in any of the following business technology programs: accounting technology, banking and finance technology, business management technology, computer technology or information technology for administrative professionals.

Associate of Applied Science: This degree is awarded to students who successfully complete prescribed coursework in any of the following environmental, health or engineering technologies: early childhood education technology, electrical/electronic engineering technology, engineering of information technology, environmental technology, environmental management technology, high technology manufacturing, horticulture technology, human services technology, laboratory technology, legal assisting technology, manufacturing engineering technology, mechanical (integrated manufacturing) engineering technology, nursing, occupational therapy assisting technology, physical therapy assisting technology, plastics technology, radiologic technology or systems (industrial) engineering technology.

Associate of Technical Study Degree-Category A: This degree requires a minimum of 65 hours selected in consultation with an academic adviser from existing courses at that campus. The program permits students to develop a curriculum based on specific career objectives that are not served by existing degree programs.

Associate of Technical Study Degree-Category B: This degree provides associate's degree-level completion based on a technical certificate or other formal technical training program acquired outside Kent State University. (See ATS—*Industrial Trades Technology*, Page 374.)

Options in Technical Programs

Some business and engineering technology programs have different options from which students can choose. While options provide students with opportunities for focused study, not all options possible within a program are offered at all campuses. Students should check with an adviser to see what program options are available at the campus they are attending.

Certificate Programs

The Regional Campus system awards approved certificates to students who successfully complete a course of study designed to meet a specific need. These programs consist of no less than 15 credit hours and no more than 30.

Students wishing to participate in certificate programs must meet the standards set forth in the University Admissions Policy, except where a program has been designed for a group with unique needs, such as a contract training group.

Students already enrolled at Kent State must declare their intent to pursue a certificate before completing 50 percent of the courses required. Courses completed pass-fail or Credit-By-Exam will not count toward completion of the certificate requirements. If a student has already completed a program requirement by pass-fail or Credit-By-Exam, an alternative requirement will be designated.

To successfully earn a certificate, students must achieve a 2.50 cumulative GPA in the courses required for the following programs: Database Administrator, Legal Nurse Consulting/Nurse Paralegal, Solutions Developer and Systems Engineer. All other certificates require a minimum cumulative GPA of 2.00 in the courses required for the programs.

Opportunities for Study Beyond the Associate's Degree

While it is understood that Associate of Arts and Associate of Science degree programs eventually lead students into a baccalaureate program, opportunities for continued study by students who complete an associate's degree in a technical field are also available.

Many credits earned in a technical associate's degree program are applicable to baccalaureate degrees both at Kent State and at other colleges and universities. Which credits apply depends upon the associate's degree earned and the baccalaureate degree toward which students wish to work.

The baccalaureate completion program permits students who hold an associate's degree in an appropriate field to complete the Bachelor of Science in approximately two years of additional study. For additional information, please consult Page 352 of this *Catalog*.

BACHELOR OF SCIENCE

The College of Fine and Professional Arts provides a Bachelor of Science in Radiologic and Imaging Sciences at the Salem Campus. The degree is designed for students with interest in pursuing studies related to medical imaging in four concentrations: computed tomography (CT), diagnostic medical sonography (DMS), magnetic resonance imaging (MRI) or nuclear medicine technology (NMT). The four pathways to pursue the degree include:

- Freshman entry for DMS and NMT for the Bachelor of Science
- Baccalaureate degree completion from the Associate of Science degree for DMS and NMT
- Baccalaureate degree completion from the Associate of Applied Science in Radiologic Technology for CT, DMS, MRI and NMT
- Baccalaureate degree completion from the Associate of Technical Studies degree for CT, DMS, MRI and NMT for those registered technologists who graduated from a hospital-based medical imaging program

The Salem Campus offers an Associate of Applied Science in Radiologic Technology. Upon completion, graduates of this associate degree must pass a national certification exam to become a registered radiologic technologist. Graduates of the program are then able to pursue the Bachelor of Science in Radiologic and Imaging Sciences in order to specialize in one of the four concentrations. The degree allows students in radiologic technology opportunities to broaden their knowledge and expertise in an advanced medical imaging modality. It also broadens the employment opportunities for graduates.

The CT and MRI concentrations are part of the baccalaureate completion program of the Associate of Applied Science in Radiologic Technology or the Associate of Technical Studies degree for those registered radiologic technologists who graduated from a hospital-based program in radiologic technology.

The nuclear medicine and the diagnostic medical sonography concentrations can be a freshman entry degree; a baccalaureate completion degree from the Associate of Applied Science in Radiologic Technology, Diagnostic Medical Sonography or Nuclear Medicine Technology; a baccalaureate completion degree from the Associate of Technical Studies in Medical Imaging; or a baccalaureate completion degree from an Associate of Science degree. The Associate of Science and the freshman entry have prerequisite coursework in radiologic technology prior to entering diagnostic medical sonogra-

phy or nuclear medicine. Students must seek advisement from an adviser in the radiologic and imaging sciences program at the Salem Campus.

Graduation Requirements

To receive a Bachelor of Science in Radiologic and Imaging Sciences, a student must satisfy the 36-hour minimum requirements stipulated in the Liberal Education Requirements as indicated in this *Catalog*. Students must complete coursework for the Diversity Requirements. Students must complete a minimum of 39 upper-division (junior and senior level) courses. The cumulative grade point average must be at least a 2.00 for all coursework taken at Kent State University. Students must have a minimum of 2.75 in the radiologic and imaging sciences core courses. Students must complete all academic and clinical competencies in their core concentration.

Writing-Intensive Course Requirements

All students at Kent State University must complete a writing-intensive course in their major. For radiologic and imaging sciences majors, IHS 44091, Professional Seminar in Integrated Health Studies, is the course designated to meet the Writing-Intensive Course Requirement.

Radiologic and Imaging Sciences*

This program provides a liberal education within the medical imaging culture for students contemplating careers in radiologic or medical imaging fields. Courses in the major provide breadth of technical experience, while electives may be utilized to increase competencies in other areas.

*Pending Ohio Board of Regents Approval.

I. Composition	.6
ENG 10001, 10002, College English I, II	.6
II. Mathematics, Logic, Foreign Languages	.6
MATH 11011, College Algebra	.4
Select 2 hours from the Liberal Education Requirements	.2
III. Humanities and Fine Arts	.9
Select 9 hours from the Liberal Education Requirements	.9
IV. Social Sciences	.9
PSYC 11762, General Psychology	.3
Select 6 hours from the Liberal Education Requirements	.6
V. Basic Sciences	.6-11
For CT, MRI, DMS and Nuclear Medicine 2+2 Concentrations:	
CHEM 10050, Fundamentals of Chemistry	.3
Select 3 hours from the Basic Sciences LERS	.3

For Diagnostic Medical Sonography Associate of Science or Freshman Entry:

BSCI	20020, Biological Structure and Function	.5
PHY	13001, General College Physics I	.5
PHY	13021, General College Physics I Lab	.0

For Nuclear Medicine Associate of Science or Freshman Entry:

BSCI	20020, Biological Structure and Function	.5
CHEM	10050, Fundamentals of Chemistry	.3
	10052, Introduction to Organic Chemistry	.2
	10053, Inorganic and Organic Laboratory	.1

- VI. US 10001, University Orientation1
- VII. Technology Requirements from AAS in RADT for 2+2 Options . . .53
- VIII. Major Requirements (choose one concentration)

Computed Tomography Concentration (2+2)

RIS	34083, Sectional Anatomy in Medical Imaging	.3
	44021, Patient Management in CT	.3
	44022, CT Procedures	.3
	44024, Physical Principles of CT	.3
	44025, CT Clinical Education	.3
	44083, Pathophysiology for Medical imaging	.3
	44098, Research in Medical Imaging	.3
IHS	44091, Professional Seminar in Integrated Health Studies	.3
	Upper-division electives	.15
TOTAL		129

Magnetic Resonance Imaging Concentration (2+2)

RIS	34083, Sectional Anatomy in Medical Imaging	.3
	44031, Patient Management in MRI	.3
	44032, MRI Procedures	.3
	44034, MR Equipment and Image Acquisition	.3
	44035, MRI Clinical Education	.3
	44083, Pathophysiology for Medical Imaging	.3
	44098, Research in Medical Imaging	.3
IHS	44091, Professional Seminar in Integrated Health Studies	.3
	Upper-division electives	.15
TOTAL		129

Diagnostic Medical Sonography Concentration

RIS	34042, Abdominal Sonography I	.3
	34044, Ultrasound Physics and Instrumentation	.3
	34045, Ultrasound Clinical Education I	.2
	34052, Abdominal Sonography II	.2

	34055, Ultrasound Clinical Education II	.3
	34062, Obstetric-Gynecology Sonography I	.2
	34065, Ultrasound Clinical Education III	.2
	34082, Small Parts Sonography	.1
	34083, Sectional Anatomy in Medical Imaging	.3
	44098, Research in Medical Imaging	.3
	44072, Obstetric-Gynecologic Sonography II	.3
	44074, Vascular Sonography	.2
	44075, Ultrasound Clinical Education IV	.3
	44083, Pathophysiology for Medical Imaging	.3
	44084, Ultrasound Image Evaluation	.1
	44085, Ultrasound Clinical Education V	.3
	Electives for freshmen entry B.S. and A.S.	.33

Related courses for freshman entry and AS:

COMT	11000, Intro. to Computer Systems	.3
HED	14020, Medical Terminology	.2
RADT	14002, Intro. to Patient Care	.3
Total hours for freshmen entry B.S., A.S. and A.T.S. for B.S. in R.I.S.		
TOTAL		121

Total hours for A.A.S. in RADT +2 B.S. in RIS

TOTAL		129
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Nuclear Medicine Technology Concentration

IHS	44091, Professional Sem. in Integrated Health Studies	.3
RIS	44001, Patient Management in Nuclear Medicine	.2
	44002, Nuclear Medicine Procedures I	.3
	44005, Nuclear Medicine Clinical Education I	.2
	44006, Nuclear Medicine Physics & Instrumentation I	.4
	44010, Nuclear Medicine Clinical Education II	.2
	44011, Nuclear Medicine Radiopharmacy	.3
	44012, Nuclear Medicine Procedures II	.3
	44014, Nuclear Medicine Physics & Instrumentation II	.2
	44015, Nuclear Medicine Clinical Education III	.3
	44016, Nuclear Medicine Procedures III	.3
	44017, Nuclear Medicine Radiation Safety	.3
	44020, Nuclear Medicine Clinical Education IV	.3
	44098, Research in Medical Imaging	.3
	Electives for freshmen entry B.S. and A.S.	.35

Related courses for freshman entry and AS:

COMT	11000, Intro. to Computer Systems	.3
HED	14020, Medical Terminology	.2
Total hours for freshmen entry B.S., A.S. and A.T.S. for B.S. in RIS		
TOTAL		121

Total hours for A.A.S. in RADT +2 B.S. in RIS

TOTAL		129
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ASSOCIATE'S DEGREE REQUIREMENTS

General Academic Requirements

In addition to completing a minimum of 61 semester hours of approved coursework and meeting all program requirements, candidates for an associate's degree, entering the university in the Fall Semester 1980 or later with freshman standing, also must complete University Orientation (US 10001), a 1-hour course.

To graduate, students must attain a minimum cumulative GPA of 2.00 for all coursework taken at Kent State University. Candidates for the Associate of Applied Business and Associate of Applied Science must attain a 2.00 cumulative GPA in the technical courses.

If students are required to take additional coursework to raise the GPA in the technical core to 2.00, the course(s) will be selected in consultation with the program adviser and approved prior to registration. It is required that such coursework be in the technical area. Candidates for the Applied Science in Nursing degree must attain a grade of at least C in each nursing, biology, chemistry and nutrition course.

Program Requirements

Before or upon completion of 32 semester hours, associate's degree students are required to contact the student services office at their campuses to obtain an official program requirement sheet. This sheet should be completed in consultation with the students' adviser and a copy returned to the student services office.

Requests for adjustments in program requirements must be approved prior to enrolling in a course that is not in the prescribed curriculum. Requests for adjustments will not be accepted during the semester in which the students expect to graduate, except when a course has been canceled at the beginning of that semester or upon determination of the campus dean that there have been mitigating circumstances.

Residency Requirements

Students seeking an associate's degree must complete either the first 45 or final 15 hours of their programs at Kent State University to fulfill their residency requirement. This means that those hours must be completed either at the Kent Campus, at the Regional Campuses, or some combination of both. Credit earned by means of transfer or correspondence courses do not count toward the hours required to fulfill residency.

Requirements for Additional Degrees

To pursue concurrent associate's degrees, students must be in good academic standing and enrolled officially for a first, or primary, associate's degree. Students may qualify to receive a concurrent associate's degree by successfully completing all the requirements

for both and a minimum of 15 credit hours beyond those required for the primary degree. To pursue a concurrent degree, students must: (1) obtain advising from a faculty member in each degree program, (2) complete a Program Requirement Sheet for each program, and (3) receive approval from the Office of Vice Provost for Regional Campuses. Only after approval is granted may students enroll for a second degree. Students must enroll for both degrees in time to meet graduation application deadlines for the semester in which they expect to receive the degrees.

Students who hold an associate's, baccalaureate or graduate degree and wish to pursue an associate's degree may do so by successfully completing all program and residency requirements, in addition to a minimum of 16 semester hours.

Because of the similarity in program requirements, the Associate of Arts and the Associate of Science degrees may not be earned concurrently; nor may either be awarded as an additional degree, when one or the other has been previously conferred.

Pass-Fail, Advanced Placement and Credit Testing

Only pass-fail credits earned in experimental courses, CLEP, Credit-By-Examination and credit-bearing advanced placement may be applied toward degree requirements in the Associate of Applied Business and Associate of Applied Science programs. The restrictions on pass-fail options for students seeking an Associate of Arts or Associate of Science degree are presented in another section of this *Catalog*.

The university policy on credit earned through advanced placement, CLEP and Credit-By-Examination is also presented in another section of this *Catalog*. Briefly, however, associate's degree students can earn no more than 15 semester hours through a combination of advanced placement, CLEP and Credit-By-Examination toward their degrees. Noncredit-bearing advanced placement waives a requirement or prerequisite but not credit hours necessary for the degree.

Transient Work at Another University

Students who wish to take coursework at another accredited institution of higher education must be in good standing and receive the prior approval of the campus dean if they intend to apply this work toward an associate's degree. Only coursework earning a grade of C or better will be considered for transfer to Kent State University. Neither the GPA nor the grades earned are used in computing the Kent State GPA.

Correspondence Course Credit

Kent State does not offer correspondence courses. It will accept up to 6 semester hours of correspondence coursework from an accredited institution toward an associate's degree; however, each course must carry a grade of at least C and be applicable to the students' associate's degree program. Correspondence credit does not count toward the residency requirement.

Graduation

Associate's degrees are conferred at each Regional Campus at the end of the semester in which all requirements are successfully completed.

Application for Graduation

Graduation applications, information and deadline dates may be obtained from Student Services at each Regional Campus. Completed application forms are to be returned by the deadline to that office. If students fail to carry out the proper application procedures, the degree will not be granted until the next graduation date.

Graduation with Distinction

Candidates for associate's degrees who demonstrate high levels of scholarship through their coursework will graduate with distinction. "With Distinction" is awarded when students achieve a GPA of 3.50 or better for all undergraduate coursework at Kent State University. In order for students to be considered for graduation "With Distinction" and have it inscribed on their diploma, a minimum of 32 credit hours must be completed at Kent State University. The students' GPA (which should be unadjusted by the application of the Academic Forgiveness Policy, Course Repeat Policy or Freshman Rule for Recalculation of Grade Point Average), will be used in determining "With Distinction."

ASSOCIATE'S DEGREES OFFERED AT EACH CAMPUS

The following is a list of associate's degrees offered at each Regional Campus.

ASHTABULA CAMPUS*Associate of Arts*

Justice Studies

*Associate of Science**Associate of Applied Business*

Accounting Technology

Business Management Technology

Computer Technology

Information Technology for Administrative Professionals

Associate of Applied Science

Early Childhood Education Technology

Electrical/Electronic Engineering Technology

Environmental Technology

Human Services Technology

Mechanical Engineering Technology
(Integrated Manufacturing)

Nursing

Physical Therapy Assisting Technology

Associate of Technical Study—Category A

EAST LIVERPOOL CAMPUS*Associate of Arts*

Justice Studies

*Associate of Science**Associate of Applied Business*

Accounting Technology

Business Management Technology

Computer Technology

Associate of Applied Science

Legal Assisting Technology

Nursing

Occupational Therapy Assisting Technology

Physical Therapy Assisting Technology

Associate of Technical Study—Category A

GEAUGA CAMPUS*Associate of Arts**Associate of Science**Associate of Applied Business*

Accounting Technology (most coursework)

Business Management Technology (most coursework)

Computer Technology

Associate of Applied Science

Horticulture Technology

Associate of Technical Study—Category A

Associate of Technical Study—Category B

Industrial Trades Technology

SALEM CAMPUS*Associate of Arts**Associate of Science**Associate of Applied Business*

Accounting Technology (most coursework)

Business Management Technology

Computer Technology

Information Technology for Administrative Professionals

Associate of Applied Science

Early Childhood Education Technology

Environmental Management Technology

Horticulture Technology

Human Services Technology

Manufacturing Engineering Technology

Radiologic Technology

Associate of Technical Study—Category A

Associate of Technical Study—Category B

Diagnostic Medical Sonography

Nuclear Medicine Technology
 Radiologic Technology
 Radiation Therapy Technology
 Radiology Department Management

STARK CAMPUS

Associate of Arts

Justice Studies

Associate of Science

TRUMBULL CAMPUS

Associate of Arts

Justice Studies

Associate of Science

Associate of Applied Business

Accounting Technology
 Banking and Finance Technology
 Business Management Technology
 Computer Technology
 Information Technology for Administrative Professionals

Associate of Applied Science

Electrical/Electronic Engineering Technology
 Environmental Technology
 High Technology Manufacturing Technology
 Laboratory Technology
 Legal Assisting Technology
 Mechanical Engineering Technology
 (Integrated Manufacturing)
 Plastics Technology
 Systems (Industrial) Engineering Technology

Associate of Technical Study—Category A

Associate of Technical Study—Category B

Industrial Trades Technology

TUSCARAWAS CAMPUS

Associate of Arts

Justice Studies

Associate of Science

Associate of Applied Business

Accounting Technology
 Business Management Technology
 Computer Technology
 Information Technology for Administrative Professionals

Associate of Applied Science

Computer Design and Animation Engineering Technology
 Early Childhood Education Technology
 Electrical/Electronic Engineering Technology
 Engineering of Information Technology
 Environmental Technology
 Mechanical Engineering Technology
 (Integrated Manufacturing)
 Nursing
 Plastics Technology

Systems (Industrial) Engineering Technology
Associate of Technical Study—Category A

ASSOCIATE'S DEGREE CURRICULA

The following curricula list requirements for each associate's degree program offered in the Regional Campuses.

Descriptions of courses for programs offered *only* at the Regional Campuses are marked with an asterisk (*) in the Course Descriptions section of this *Catalog*.

THE ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE DEGREES

The Associate of Arts and Associate of Science degrees may be used for several purposes: (1) they may serve as freshman- and sophomore-year programs for students who are planning to complete a bachelor's degree program; (2) they may serve as degrees unto themselves for students who want to obtain a general education by sampling a variety of different subject areas; (3) they may advance students' careers or provide job retraining; and (4) they provide opportunities for intellectual growth and personal satisfaction.

Because of the general nature of the programs, students may achieve emphasis in areas that will meet specific educational needs by taking a concentration of six courses in a particular field of study. *However, students should consult with their advisers in the selection of their courses prior to the beginning of each semester.*

The following will meet the minimum requirements for each degree:

Composition	6
Mathematics, Logic and Foreign Languages	6
Humanities and Fine Arts	9
Social Sciences	9
Basic Sciences	6
Electives	24
University Orientation (US 10001)	1
TOTAL	61

The Associate of Arts and Associate of Science degrees include both required courses and electives. The required courses are to be selected from the university's LER list. (See Pages 77-80 for these courses.) Electives should be chosen in the students' area of interest. Students planning to pursue a bachelor's degree should select electives to meet the requirements of the degree they are pursuing.

These degrees are offered at each of the seven Regional Campuses.

Associate of Applied Business

Accounting Technology

This degree is available at the Ashtabula, East Liverpool, Trumbull and Tuscarawas campuses. Most of the courses in this program are also available at the Geauga and Salem campuses.

I. TECHNICAL COURSES	.29-30
ACTT 11000, Accounting I—Financial	4
11001, Accounting II—Managerial	4
20012, Accounting Software Applications	3
21000, Accounting III—Financial	4
21003, Fundamentals of Tax Preparation	3
21004, Intro. to Cost Accounting	3
BMRT 11000, Introduction to Business	3
Technical electives**	5-6
II. RELATED COURSES	.15
BMRT 21000, Business Law and Ethics I	3
COMT 11000, Intro. to Computer Systems	3
ECON 22060, Principles of Microeconomics	3
22061, Principles of Macroeconomics	3
Choose one from:	.3
ENG 20001, Business Writing (3)	
20002, Introduction to Technical Writing (3)	
ITAP 26638, Business Communications (3)	
III. GENERAL STUDIES COURSES	.17
ENG 10001, 10002, College English I, II	6
COMM 15000, Theory and Practice of Oral Discourse	3
MATH 11011, College Algebra	4
US 10001, University Orientation	1
General studies electives***	3
<i>Choose from the LERs list in Undergraduate Catalog, in consultation with an academic adviser.</i>	
TOTAL	61-62

**Students desiring to maximize credit application to a B.B.A. degree may substitute MATH 11012 or 10041 for their technical electives.*

***In consultation with an adviser select from: ACTT, BFRT, BMRT, COMT or ITAP.*

****Only one of ENG 10000 and MATH 10005 applicable toward degree.*

Associate of Applied Business

Banking and Finance Technology

This degree is available only at the Trumbull Campus. Not all courses in this curriculum are offered on a regular basis.

I. TECHNICAL COURSES	.36-37
ACTT 11000, Accounting I—Financial	4
BFRT 11000, Intro. to Financial Institutions	3
11001, Money and Banking	3
21000, Consumer Credit	3
21002, Analyzing Financial Statements	3
21012, Seminar in Financial Institution	3
BMRT 21011, Fundamentals of Financial Management**	3
21050, Fundamentals of Marketing Technology	3
21052, Professional Selling Techniques	3
Select one option	
<i>in consultation with adviser: (*Required Courses)</i>	
Bank Operations	
BFRT 11003, Teller Operations (2)	
* 11010 Trust Department Organization and Services (3)	
Select electives from:	
11011, Investments (3)	
21003, Mortgage Lending (3)	
21092, Internship in Bank/Fin. (2)	
21095, Special Topics (2-3)	
Personal Financial Management	
BFRT* 11010 Trust Department Organization and Services (3)	
* 11011 Investments (3)	
Select one elective from:	
BFRT 21003, Mortgage Lending (3)	
21092, Internship in Bank/Fin. (2)	
21095, Special Topics (2-3)	
BMRT 21002, Business Law and Ethics II (3)	
21054, Insurance Principles (3)	
Real Estate Sales	
RERT* 11000 Real Estate Princ./Practices (3)	
* 11001 Real Estate Law (3)	
* 11003 Real Estate Finance (2)	
* 21000 Real Estate Appraisal (2)	
II. RELATED COURSES	.15
BMRT 11000, Intro. to Business	3
* 11006, Business Computations I	3
21000, Business Law and Ethics	3

Computer Literacy Module

Select one from:3

- COMT 11000, Intro. to Computer Systems (3)
- 21010, Workgroup Productivity Software (3)
- ITAP 16639, Database Applications (1)
- 16620, Word Processing I (3)

Business Communications Module

Select one from:3

- ENG 20001, Business Writing (3)
- 20002, Introduction to Technical Writing (3)
- ITAP 26638, Business Communication (3)

III. GENERAL STUDIES COURSES16

- ECON 22060, Principles of Microeconomics 3
- ENG 10001, 10002, College English I, II 6
- PSYC 11762, General Psychology 3
- US 10001, University Orientation 1
- General studies electives 3

from the LERS

TOTAL 67-68

***ACTT 11001, Managerial Accounting can be substituted.*

Associate of Applied Business

Business Management Technology

This degree is available at the Ashtabula, East Liverpool, Salem, Trumbull and Tuscarawas campuses. Most of the courses in this program are also available at the Geauga Campus.

I. TECHNICAL COURSES35-39

- ACTT 11000, Accounting I - Financial 4
- BMRT 11000, Intro. to Business 3
- 11009, Intro. to Management Technology 3
- 21006, Human Resources Management 3
- 21008, Case Studies in Mgmt. Technology 3
- 21009, Seminar in Management Technology 3
- 21011, Fundamentals of Financial Management 3
- 21050, Fundamentals of Marketing Technology 3
- 21052, Professional Selling Techniques 3

Select one option

*In consultation with adviser: (*Required Courses)*

Marketing/Sales

- BMRT*21051 Fundamentals of Retailing (3)
- * 21053 Advertising in Business (3)

Select one elective from:

- BMRT 21055, Retail Merchandising (3)
- 21056, Principles of Visual Display (3)

21092, Internship in Mgmt. Tech. (1-3)

Entrepreneurship/Small Business

- BMRT*21020 Introduction to Entrepreneurship (3)
- 21023, Financing the Business Venture (3)

Select one elective from:

- BMRT 21092, Internship in Mgmt. Tech. (1-3)
- Elective in consultation with faculty adviser.

Manufacturing Management

- BMRT*21004, Introduction to Business Statistics (3)
- TECH* 20002, Materials and Processes I (3)

Select one elective from:

- BMRT 21005, Purchasing and Supply Management (3)
- 21092, Internship in Mgmt. Tech. (1-3)
- IERT 22000, Statistical Process Control (4)
- 22003, Supervision and Labor Relations (5)
- TECH 31016, Manufacturing Technology (3)

General Business (7-9)

Before enrolling or applying credit, obtain approval of full-time business management faculty.

II. RELATED COURSES12

- BMRT 21000, Business Law and Ethics I 3
- ECON 22060, Principles of Microeconomics 3

Computer Literacy Module:

Select 3 credit hours from:3

- COMT 11000, Introduction to Computer Systems (3)
- 21010, Workgroup Productivity Software (3)
- ITAP 16620, Word Processing I (3)
- 16639, Database Applications (1)

Business Communications Module:

Select one from:3

- ENG 20001, Business Writing (3)
- 20002, Introduction to Technical Writing (3)
- ITAP 26638, Business Communications (3)

III. GENERAL STUDIES COURSES17

- COMM 15000, Theory and Practice of Oral Discourse 3
- ENG 10001, College English I 3
- 10002, College English II 3
- MATH 11011, College Algebra 4
- US 10001, University Orientation 1
- Select 3 credit hours from the LERS 3

TOTAL 64-68

Associate of Applied Business

Computer Technology

This program is available at the Ashtabula, East Liverpool, Geauga, Salem, Trumbull and Tuscarawas campuses. The students in

this program may choose to follow concentrations that lead to a specialization in a specific area of information technology (IT) careers. These specializations begin to prepare students for the required examinations for various professional certifications. Students may also choose to pursue a general concentration, which prepares students for positions in small- and medium-sized organizations that require computer staff to perform a wide range of technical duties.

I. TECHNICAL CORE COURSES	15
COMT 11002, Visual Basic Programming	3
11004, Survey of Information Technology	3
11005, Introduction to Operating Systems and Networking Technology	3
11006, Introduction to Web Site Technology	3
21010, Workgroup Productivity Software	3
II. TECHNICAL CONCENTRATIONS:	17
<i>Select one concentration in consultation with adviser.</i>	
Network Technology Concentration:	
COMT 11009, Computer Assembly and Configuration	3
21002, Network Setup and Configuration	4
TECH 46310, Technology of Operating Systems	3
46311, Technology of Networking	3
Computer-related elective (COMT faculty approval required) . . .	4
Application Development Technology Concentration:	
COMT 20001, Visual C++ Programming	3
21004, Advanced Visual C++ Programming	4
21005, Visual Basic Database Programming	4
TECH 46308, Developing Desktop Applications	3
Computer-related elective (COMT faculty approval required) . . .	3
Internet/Multimedia Technology Concentration:	
COMT 21007, Internet Ethics and Policies	3
21011, Techniques of Multimedia Web Design	3
21036, Web Scripting I	3
TECH 36310, Multimedia Development Tools	3
46321, Web-Database Integration	3
Computer-related elective (COMT faculty approval required) . . .	2
General Technology Concentration:	
COMT 11009, Computer Assembly and Configuration	3
20001, Visual C++ Programming	3
21002, Network Setup and Configuration	4
21005, Visual Basic Database Programming	4
Computer-related elective (COMT faculty approval required) . . .	3
III. RELATED COURSES	13-15
COMT 12000, Introduction to Computer Systems II	3
MATH 11011, College Algebra	4
Choose two courses from 6-8	
ACTT 11000, Accounting I - Financial (4)	
11001, Accounting II - Managerial (4)	
BMRT 11000, Introduction to Business (3)	

COMT*11000, Introduction to Computer Systems (3)	
ECON 22060, Principles of Microeconomics (3)	
22061, Principles of Macroeconomics (3)	
MATH 11012, Intuitive Calculus (3)	
IV. GENERAL STUDIES COURSES	16
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
US 10001, University Orientation	1
Choose one course from: 3	
ENG 20002, Introduction to Technical Writing (3)	
ITAP 26638, Business Communications (3)	
Electives (from Liberal Education Requirements list):	6
TOTAL	61-63

**COMT 11000 may only be applied toward this degree if taken prior to any other COMT course offering.*

Associate of Applied Science

Computer Design and Animation Engineering Technology

This degree is available only at the Tuscarawas Campus. Selected courses are also offered at the Trumbull Campus. The purpose of this program is to prepare graduates for entry-level positions as drafter/designer technicians in engineering and manufacturing industries, as well as in the field of multimedia development.

I. TECHNICAL COURSES	19
CADT 22000, Advanced CAD	2
22001, CAD: Architecture	2
22002, CAD: Civil Applications	2
EERT 22014, Microprocessors and Robotics	4
IERT 12005, Applications in CAD	2
MERT 12000, Engineering Drawing	3
12001, Computer-Aided Drafting	4
II. SPECIALTY COURSES	13
CADT 22003, Solid Modeling	2
22004, Computer Animation	3
22005, Multimedia and Virtual Reality Dev.	2
COMT 21010, Workgroup Productivity Software	3
21095, ST: Object Oriented Language	3
III. RELATED COURSES**	20
BMRT 11000, Introduction to Business	3
EERT 22003, Technical Computing	3
IERT 22006, Economic Decision Analysis	3
MATH 11011, College Algebra	4
11012, Intuitive Calculus	3
11022, Trigonometry	2

Choose one from:2

COMT 21092, Computer Practicum (2)

IERT 22095, ST: Productivity Software (2)

IV. GENERAL STUDIES COURSES14

COMM 15000, Theory and Practice Oral Discourse3

ENG 10001, College English I3

20002, Introduction to Technical Writing3

US 10001, University Orientation1

General Studies Electives:4

*Select from the Social Sciences and Humanities lists of the LERs in this Catalog.**

TOTAL 66

**Only one of ENG 10000 and Math 10005 permitted. Only 2 hours PEB, 3 hours MSCJ permitted.*

***Tuscarawas students must take MATH 11011, 11022, 19002 (10 hours) or MATH 12001, 12002 (9 hours). For Tuscarawas students the Related Courses hours are 20-21 and the total hours are 66-67.*

Associate of Applied Science

Early Childhood Education Technology

This degree is offered at the Ashtabula, Salem and Tuscarawas campuses. The coursework in this associate's degree is fully applicable to the bachelor's in early childhood education offered at the Kent Campus in the College of Education. A minimum 2.00 cumulative GPA is required of students graduating with the associate's degree. However, students who desire to be admitted to the bachelor's program in early childhood education must have a minimum cumulative GPA of 2.50, qualify for selective admission and meet other qualifying conditions that are best understood by consulting with an academic adviser.

I. TECHNICAL COURSES35

ECED 10120, Introduction to Early Childhood2

20163, Understanding Young Children:

Typical and Atypical5

ECET 21005, Child Guidance3

21010, Early Childhood Curriculum I3

22000, Early Childhood Curriculum II3

22100, Organization of Program and

Parent Involvement3

22150, Student Teaching6

EDPF 19525, Inquiry into the Profession4

29525, Inquiry into Teaching and Learning3

HED 20000, Health Education for Early Childhood Educators . 3

II. RELATED COURSES13

HDFS 24011, The Family3

MATH 14001, Basic Math Concepts I4

14002, Basic Math Concepts II3

SOC 12050, Introduction to Sociology3

III. GENERAL STUDIES COURSES19

COMM 15000, Theory and Practice of Oral Discourse3

ENG 10001, College English I3

10002, College English II3

PSYC 11762, General Psychology3

US 10001, University Orientation1

Basic Science elective (select from LER list)3

Humanities and Fine Arts elective (select from LER list)3

TOTAL 67

Degree requirements include those of the Ohio Department of Job and Family Services for completion of:

6 hours of training in first-aid

6 hours of training in communicable diseases

6 hours of training in child abuse knowledge

Associate of Applied Science

Electrical/Electronic Engineering Technology

This degree program is available at the Ashtabula, Trumbull and Tuscarawas campuses. This degree is designed to cover both the electrical engineering and electronics technology fields, including robotics. Technical electives directed to specific program options may be substituted with the approval of a faculty adviser and depend on courses offered at a particular campus. Program options include general option and computer option. The availability of the program options depends upon student interest and local circumstances. Not all courses or options are available on all campuses.

I. TECHNICAL COURSES37

EERT 12000, 12001, Electric Circuits I, II7

12010, Intro. to Electronics3

22004, Digital Systems3

22011, Electronic Systems3

22014, Microprocessors and Robotics4

IERT 22010, Computer Integrated Manufacturing.3

MERT 12000, Engineering Drawing3

22009, Robotics and Flexible Automation3

Choose one from 3

EERT 22002, Industrial Controls (3)
22005, Instrumentation (3)

Select one Option: 5-6

General Option Specialty Courses:

EERT 22006, Electrical Machines (3)
22013, Industrial Electronics (3)
12005, Electrical/Electronic Drawing (2)

or

IERT 12005, Applications in CAD (2)

Computer Option Specialty Courses:

COMT 21008, Computer Methods in Sci. and Eng 3

EERT 22015, Robotics and Advanced Micro-Systems 3

II. RELATED COURSES 19

EERT 22003, Technical Computing 3

MATH* 11011, College Algebra 4
11012, Intuitive Calculus 3
11022, Trigonometry 2

PHY 12201, 12202, Technical Physics I, II 7

III. GENERAL STUDIES COURSES 14

COMM 15000, Theory and Practice of Oral Discourse 3

ENG 10001, College English I 3
20002, Introduction to Technical Writing 3

US 10001, University Orientation 1

Social Sciences or Humanities electives 4

from the LERS

TOTAL **70-71**

*Tuscarawas students must take MATH 11011, 11022, 19002 (10 hours) or MATH 12001 12002, (9 hours) due to TAC/ABET accreditation. For Tuscarawas students the Related Courses hours are 19-20.

Associate of Applied Science

Engineering of Information Technology

This degree is available only at the Tuscarawas Campus.

I. TECHNICAL COURSES 38

COMT 21095, ST: Object Orientated Language 3

EERT 12000, Electric Circuits I 4
12001, Electric Circuits II 3
22000, Electricity/Electronics with Applications 3
22004, Digital Systems 3
22017, Applied Engineering Software 3
22018, PC Network Engineering 3

EIRT 22030, Survey of Information Technology 3

22032, PC Network Engineering II 3

22033, Fiber Optics Technology 2

IERT 12005, Applications in CAD 2

MERT 12000, Engineering Drawing 3

TECH 33223, Electronic Communication 3

II. Related Courses in Mathematics and Physics 20

EERT 22003, Technical Computing 3

MATH 11011, College Algebra 4
11022, Trigonometry 2
19002, Technical Math II 4

PHY 12201, Technical Physics I 3
12202, Technical Physics II 4

III. Communication and General Studies Courses 14

COMM 15000, Theory and Practice of Oral Discourse 3

ENG 10001, College English I 3
20002, Introduction to Technical Writing 3

TECH 22095, Special Topics in Technology 1

US 10001, University Orientation 1

TOTAL **72**

Associate of Applied Science

Environmental Management Technology

This degree is available only at the Salem Campus. The general purpose of this program is to prepare graduates for entry-level positions in industry, regulatory agencies, environmental consulting firms and other institutional settings as environmental technicians. The program includes applied courses in environmental sampling techniques and related equipment use. Courses in this program rely heavily on knowledge from biological and related sciences.

I. TECHNICAL COURSES 34

BSCI 10110, Biological Diversity 4
10120, Biological Foundations 4

EMGT 11000, Intro. to Environmental Risk Issues 3
12010, Safety in the Workplace 3
20010, 20011, Environmental Sampling and
Problem Analysis I, II 8
20050, Hazardous Substances and
Hazardous Waste Management 3
21092, 22092, Practicum in Environmental
Management Technology I, II 6

ENVT 20001, Environmental Law 3

II. RELATED COURSES 15

BMRT 11000, Introduction to Business 3

CHEM 10050, Fundamentals of Chemistry 3

10052, Introduction to Organic Chemistry	2
10053, Inorganic and Organic Chem. Lab	1
COMT 11000, Introduction to Computers	3
GEOG 21062, Environmental Geology	3
III. GENERAL STUDIES COURSES	.17
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, 10002, College English I, II	6
20002, Introduction to Technical Writing	3
MATH 11011, College Algebra	4
US 10001, University Orientation	1
TOTAL	66

III. GENERAL STUDIES COURSES	.17
ENG 10001, College English I	3
10002, College English II	3
GEOG 21062, Physical Geography	3
MATH 11011, College Algebra	4
US 10001, University Orientation	1
General studies elective	3
<i>Select from the LERs list in this Catalog.</i>	
TOTAL	68

Associate of Applied Science

Environmental Technology

This degree is offered at the Ashtabula, Trumbull and Tuscarawas campuses and is designed to prepare graduates for entry-level positions in the field of environmental technology. The program includes an environmental core, select basic science courses and appropriate liberal education courses. It is recommended that students interested in matriculating to a four-year program see an adviser for proper guidance.

I. TECHNICAL COURSES	.34
COMT 11000, Introduction to Computers	3
ENVT 10001, Introduction to Environmental Technology	3
10004, Toxicology	3
10010, Environmental Hazards Identification and Control	4
20001, Environmental Law	3
20004, Safety and Injury Control	3
20008, Environmental Safety Administration	3
20092, Environmental Technology Internship I	3
21092, Environmental Technology Internship II	3
Select two courses from the following list	.6
<i>In consultation with an adviser.</i>	
ENVT 20006, Fire Prevention and Control (3)	
20020, Hazardous Waste Operations and Emergency Response (3)	
22095, Special Topics in Environmental Technology (3)	
JUS 22301, The Investigative Process (3)	
II. RELATED COURSES	.17
BSCI 10110, Biological Diversity	4
10120, Biological Foundations	4
CHEM 10054, General and Elementary Organic Chemistry	5
10053, Inorganic and Organic Lab	1
GEOG 20162, Environmental Geology	3

Associate of Applied Science

High Technology Manufacturing

This degree is offered only at the Trumbull Campus. The two-year curriculum begins by laying a solid foundation in mathematics, chemistry, physics and electronics before introducing topics in semiconductor manufacturing and photonics. Students gain an understanding of the complete process of taking silicon from its raw state, fashioning it into wafers, manufacturing the integrated circuits on the wafers, and finally testing the integrated circuits to see if they perform to specifications set for the product. Students will learn the use and application of lasers, light-wave communications and optoelectronic devices.

I. TECHNICAL COURSES	.23
EERT 12000, Electric Circuits I	4
12001, Electric Circuits II	3
12005, Electrical/Electronic Drawing	2
12010, Introduction to Electronics	3
22003, Technical Computing	3
22004, Digital Systems	3
22011, Electronic Systems	3
HTMT 13600, Electronic Materials	2
II. Select one concentration	.14-15

General

EERT 23000, Sensors	2
<i>Select 6 hours each from photonics and semiconductor concentrations with the approval of EERT faculty adviser.</i>	

Photonics

HTMT 13601, Intro. to Photonics & Fiber Optics	3
13602, Introduction to Lasers	3
13603, Laser & Electro-Optic Components & Devices	3
23603, Light Sources & Wave Optics	3

* 23607, Laser Technology: Applications 3
or Special Topics

Semiconductor

EERT 22002, Industrial Controls 3
HTMT 23600, Semiconductor Manufacturing Process I 3
23601, Semiconductor Manufacturing Process II 3
23602, Photolithography in IC Fabrication 2
23604, Vacuum System Technology 2
23606, Power Radio Frequency 2

III. **Related Courses** 16
MATH 12001, Algebra & Trigonometry 4
12002, Analytical Geometry & Calculus I 5
PHY 12201, Technical Physics I 3
12202, Technical Physics II 4

IV. **General Studies Courses** 18
CHEM 10060, General Chemistry I 4
10062, General Chemistry I Lab 1
COMM 15000, Theory and Practice of Oral Discourse 3
ENG 10001, College English I 3
20002, Introduction to Technical Writing 3
US 10001, University Orientation 1
LER 3

71-72

**EERT/IERT/MERT or HTMT special topics course. May be substituted with appropriate EERT/IERT/MERT or HTMT course(s). Engineering technology faculty adviser's approval is required.*

Associate of Applied Science

Horticulture Technology

This degree is offered at the Geauga and Salem campuses. Students who want to emphasize a particular area may concentrate on tree care, lawn care or landscape care. This degree is designed to prepare graduates for entry-level positions in the horticulture industry.

I. **TECHNICAL COURSES** 37
BSCI 16001, Horticultural Botany 3
26002, Ecological Principles of Pest Management 3
26003, Plant Identification and Selection I 3
26004, Plant Identification and Selection II 3
CHEM 16001, Horticultural Chemistry 4
GEOG 16001, Soil and Horticultural Management 3
HORT 16001, Intro. to Horticulture 1

26001, Occupational Regulations and Safety 2
Technical elective 3

Select two concentrations from the following areas . 12

HORT 26010, Arboriculture (3)
26011, Cooperative Work Experience in Tree Care (3)

or

HORT 26020, Landscape Management (3)
26021, Cooperative Work Experience
in Landscape Management (3)

or

HORT 26030, Turfgrass Management (3)
26031, Cooperative Work Experience in
Turfgrass Management (3)

II. **RELATED COURSES** 15

BMRT 11000, Introduction to Business 3
11006, Business Computations I 3
21052, Professional Selling Techniques 3
COMT 11000, Introduction to Computers 3
GEOL 21062, Environmental Geology 3

III. **GENERAL STUDIES COURSES** 14

COMM 15000, Theory and Practice of Oral Discourse 3
ENG 10001, College English I 3
20002, Introduction to Technical Writing 3
PEB 10020, Development and Conditioning 1
US 10001, University Orientation 1
Elective from the LERS 3

TOTAL 66

Associate of Applied Science

Human Services Technology

This degree is offered at the Ashtabula and Salem campuses and is designed to prepare graduates for entry-level positions at a beginning, preprofessional level of practice in a variety of human service agencies. The program includes applied courses in social services and supervised internships for second-year students in local human services agencies. The core of the curriculum is focused on client advocacy and case management. Admission to the program requires admission to the university and approval of an application, which includes, at minimum, the completion of 18 credit hours in the first year. Students may begin the program on a full- or part-time basis but must register for at least 9 credit hours in the third and fourth semesters. Detailed information and requirements for admission, satisfactory progress and graduation are in the student handbook for this program. A copy of the handbook may be obtained from the program director.

I. TECHNICAL COURSES . . . . .	.33
HED 11590, Community Health	3
HST 11000, Introduction to Human Services	1
11001, Group Process in Human Services	2
11002, Survey of Community Resources	3
21000, Dynamics of Helping Relationship	3
21001, Assessment of Client Needs	3
21002, Client Advocacy and Case Mgt	3
21092, Internship I	3
21192, Internship II	3
SOC 32762, Deviant Behavior	3
Electives	6
<i>Choose from: HED 22530, 32544, SOC 32400, 32570, COMT 11000, ITAP 16680.</i>	
II. RELATED COURSES . . . . .	.17
HED 11570, Personal Health	3
14020, Medical Terminology	2
21050, Health Behavior and Advocacy	3
PSYC 11762, General Psychology	3
21211, Psychology of Adjustment	3
SOC 12050, Introduction to Sociology	3
III. GENERAL STUDIES COURSES . . . . .	.16
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
20002, Introduction to Technical Writing	3
US 10001, University Orientation	1
Electives	6
<i>From the Social Sciences and Humanities lists of the LERs.</i>	
TOTAL	66

Associate of Applied Business

Information Technology for Administrative Professionals

This degree is offered at the Ashtabula, Salem, Trumbull and Tuscarawas campuses. Program options are offices services, administrative assistant and office management. Some options are not available at the Salem Campus. Technical electives depend on the option chosen and the typing and shorthand skills of the students at the time of first enrollment. Please study options listed in this Catalog and consult a faculty adviser.

I. TECHNICAL COURSES . . . . .	.30
ITAP 16605, Intro. to Operating Systems & Networking Tech.	3
16620, Word Processing I	3
16621, Word Processing II	3
16625, Business Presentations	2
16636, Data Management for Admin. Professionals	3

16639, Database Applications	1
26611, Spreadsheet Applications	3
26622, Desktop Publishing I	3
26623, Desktop Publishing II	3
26635, Administrative Resource Management	3
26636, Project Management for Admin Professionals	1
26691, Seminar for Admin. Professionals	2
II. RELATED COURSES . . . . .	.16
ACTT 11000, Accounting I - Financial	4
BMRT 11006, *Business Computations I	3
Related Electives . . . . .	.9
ACTT 20012, Accounting Software Applications (3)	
BMRT 11000, Introduction to Business (3)	
COMT 11000, **Introduction to Computer Systems (3)	
11004, Survey of Information Technology (3)	
11006, Introduction to Web Site Technology (3)	
12000, Introduction to Computer Systems II (3)	
21007, Internet Ethics and Policies (3)	
21010, Workgroup Productivity Software (3)	
21011, Techniques of Multimedia Web Design (3)	
III. GENERAL STUDIES COURSES . . . . .	.16
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
ITAP 26638, Business Communications	3
US 10001, University Orientation	1
General studies electives:	6
<i>Select from LERs list in this Catalog.</i>	
TOTAL	62

**With a faculty adviser's approval, this course may be taken Credit-By-Exam or replaced with more advanced mathematics, statistics or accounting.*

***This course may be applied as a related elective if taken prior to or concurrently with any other COMT or ITAP offering.*

Associate of Arts

Justice Studies

This curriculum is offered for students planning to pursue the Bachelor of Arts degree with a justice studies major. It is available at the Ashtabula, East Liverpool, Stark, Trumbull and Tuscarawas campuses.

I. MAJOR COURSES . . . . .	.24
JUS 12000, Intro. to Justice Studies	3
22100, Basic Interviewing	3

22300, Police Role	3
26701, Corrections	3
26702, Criminology	3
26704, Law and Society	3
JUS electives	6
II. GENERAL STUDIES COURSES	37-38
ENG 10001, 10002, College English I, II	6
Humanities and Fine Arts	9
<i>from the LERs</i>	
Social Sciences	9
<i>from the LERs</i>	
Basic Sciences	9
<i>at least 6 hours from the LERs.</i>	
Mathematics, Logic, and Foreign Languages	3-4
<i>One course in mathematics or logic from the LERs (MATH 14001, 14002 not acceptable), or one foreign language course.</i>	
US 10001, University Orientation	1
TOTAL	61-62

Associate of Applied Science

Laboratory Technology

This degree is offered at the Trumbull Campus. It is designed to prepare graduates with applied skills and knowledge for employment as laboratory assistants in commercial, industrial and environmental testing laboratories. The program includes a laboratory technology core with concentrations in environmental laboratory or industrial laboratory from which students may choose; related courses and general studies courses are designed to support the technical courses. Students planning on continuing in a four-year program should consult with an academic adviser.

I. TECHNICAL COURSES	22-23
ENVT 10004, Toxicology	3
20020, Hazardous Waste Operations & Emergency Response	3
LABT 11001, Laboratory Safety	3
11002, Laboratory Quality Control and Quality Assurance	4
11004, Applied Laboratory Technology	3
21001, Introduction to Industrial Chemical Processes	2
21092, Internship in Laboratory Technology	1-2
21095 Special Topics in Laboratory Technology	3
Select one option:	9-10
Environmental Laboratory Option	
ENVT 10001, Introduction to Environmental Technology (3)	

20001, Environmental Law (3)	
LABT 20010, Industrial Hygiene & Environmental Testing (3)	
Industrial Laboratory Option	
MERT 12005, Properties of Materials (3)	
22006, General Mechanical Laboratory (3)	
PLCT 12000, Introduction to Plastics (4)	
II. RELATED COURSES	16
CHEM 20111, Elementary Quantitative Analysis	4
20112, Elementary Quantitative Lab	2
COMT 11000, Introduction to Computer Systems	3
MATH 19001, Technical Mathematics I	4
PHY 12201, Technical Physics I	3
III. GENERAL STUDIES COURSES	16
CHEM 10050, Fundamentals of Chemistry	3
10052, Introduction to Organic Chemistry	2
10053, Inorganic and Organic Lab	1
ENG * 10001, College English I	3
<i>*Prerequisite ENG 10000 - 3 hours or test.</i>	
20002, Introduction to Technical Writing	3
US 10001, Orientation	1
Elective from LERs	3
TOTAL	63-65

Associate of Applied Science

Legal Assisting Technology

This degree is available at the East Liverpool and Trumbull campuses and is designed to train students as legal assistants (paralegals).

I. TECHNICAL COURSES	24
LEGT 18000, Intro. to Paralegal Studies	3
18001, Legal Research and Writing	3
18003, Family Law and Procedure	3
21092, Internship	2
28004, Principles and Practice of Litigation	3
28005, Civil Litigation	3
28006, Adv. Legal Research and Writing	3
28007, Estate and Probate Admin	3
28008, Prof. Develop. for Paralegals	1
II. TECHNICAL ELECTIVES	12
ACTT 21003, Fundamentals of Tax Preparation (3)	
BMRT 11009, Intro. to Management Technology (3)	
21000, Business Law and Ethics I (3)	
21002, Business Law and Ethics II (3)	
ENG 20002, Introduction to Technical Writing (3)	
JUS 12000, Intro. to Justice Studies (3)	

	22100, Basic Interviewing (3)	
	22301, The Investigative Process (3)	
LEGT	18002, Corporate Law (3)	
	18004, Tort Claims for Paralegals (3)	
	18005, Employment Regulations (3)	
RERT	11000, Real Estate Principles and Practices (3)	
	11001, Real Estate Law (3)	
III. RELATED COURSES		.13
ACTT	11000, Accounting I - Financial	4
BMRT	11000, Intro. to Business	3
	* 11006, Business Computations I	3
COMT	11000, Intro. to Computer Systems	3
IV. GENERAL STUDIES COURSES		.19
COMM	15000, Theory and Practice of Oral Discourse	3
ENG	10001, College English I	3
	10002, College English II	3
US	10001, University Orientation	1
	Choose 3 hours from:	.3
PSYC	11762, General Psychology (3)	
SOC	12050, Intro. to Sociology (3)	
	Choose 6 hours from:	.6
ECON	22060, Principles of Microeconomics (3)	
GEOG	10160, Introduction to Geography (3)	
	17063, World Geography (3)	
JUS	26704, Law and Society (3)	
POL	10001, Introduction to Political Science (3)	
	10004, Comparative Politics (3)	
	10100, American Politics (3)	
	10301, Diversity in American Public Policy (3)	
	10500, World Politics (3)	
PSYC	20651, Child Psychology (3)	
	21211, Psychology of Adjustment (3)	
SOC	12050, Introduction to Sociology (3)	
	32400, Individual and Society (3)	
	32570, Inequality in Societies (3)	
	TOTAL	68

*A higher-level math course may be substituted.

Associate of Applied Science

Manufacturing Engineering Technology

This degree is available only at the Salem Campus. This degree is designed to prepare students for entry-level technical jobs in manufacturing. Subject matter includes computer-aided design (CAD), computer-aided manufacturing (CAM), computer numerical control (CNC), industrial controls and programmable logic

controllers (PLCs), with an emphasis on industrial automation. There are two options within the degree: (1) the industrial automation option, and (2) the automated machining option.

I. TECHNICAL COURSES		.35
	Engineering Technology Core:	
EERT	22000, Electricity/Electronics with Applications	3
	22002, Industrial Controls	3
IERT	12005, Applications in Computer-Aided Design	2
	22010, Computer Integrated Manufacturing	3
MERT	12000, Engineering Drawing	3
	12001, Computer Aided Drafting	4
	12005, Properties of Materials	3
	22012, Fluid Power	3
MFGT	12010, Safety in the Workplace	2
	21001, Standard Design Practice for Manufacturing	3
	Select one option:	.6
	Industrial Automation Option Specialty Courses:	
EERT	22013, Industrial Electronics (3)	
MFGT	22014, Advanced Industrial Electronics (3)	
	Automated Machining Option Specialty Courses:	
MFGT	13001, Computer Numerical Control Programming (3)	
	23001, Computer Aided Manufacturing I (3)	
II. RELATED COURSES		.17
EERT	22003, Technical Computing	3
IERT	22000, Statistical Process Control	4
PHY	13001, General College Physics I	5
	13002, General College Physics II	5
III. GENERAL STUDIES COURSES		.14
COMM	15000, Theory and Practice of Oral Discourse	3
ENG	10001, College English I	3
	20002, Introduction to Technical Writing	3
MATH	12001, Algebra & Trigonometry	4
US	10001, University Orientation	1
	TOTAL	66

Associate of Applied Science

Mechanical Engineering Technology

(Integrated Manufacturing)

This degree is designed to explore mechanical engineering technology, with emphasis on integrated manufacturing. Subject matter includes drafting, CAD/CAM, CNC, materials testing and robotics applications. Technical electives may be substituted with the approval of a faculty adviser. The general concentration of this degree program is available at the Ashtabula, Trumbull and

Tuscarawas campuses. The systems concentration is an individualized concentration, which must be developed with an adviser's assistance; it is available only at the Ashtabula Campus (see also Systems Engineering Technology). The polymer concentration is available at the Ashtabula and Trumbull campuses. The radiation polymer concentration is available at the Ashtabula, Trumbull and Tuscarawas campuses.

I. TECHNICAL COURSES36-39

Engineering Technology Core:

- EERT 22014, Microprocessors and Robotics 4
- IERT 22010, Computer Integrated Manufacturing 3
- MERT 12000, Engineering Drawing 3
 - 12001, Computer-Aided Drafting 4
 - 12005, Properties of Materials 3
 - 22009, Robotics and Flexible Automation 3

Choose one Concentration16-19

General Concentration:

- MERT 12004, Manufacturing Processes 3
 - 22002, Statics and Strength of Materials 5
 - 22003, Computer-Aided Tool Design 3
 - 22004, Mechanics and Machine Design 5
 - 22012, Fluid Power 3

Polymer Concentration:

Available only at the Ashtabula and Trumbull campuses.

- IERT 22000, Statistical Process Control 4
- PLCT 12000, Intro. to Plastics 4
 - 12003, Reinforced Plastics 3
 - 12004, Properties of Plastics Materials 3
 - 22000, Assembly and Finishing of Plastics 3

Radiation Polymer Concentration:

Available only at the Ashtabula, Trumbull and Tuscarawas campuses.

- PLCT 12000, Intro. to Plastics 4
 - 12003, Reinforced Plastics 3
 - 12005, Radiation Polymer Tech. I 3
 - 22006, Radiation Polymer Tech II 3
- IERT 22000, Statistical Process Control 4

Systems Concentration:

Available only at the Ashtabula and Salem campuses.

- IERT 12005, Applications in CAD 2
 - MERT 12004, Manufacturing Processes 3
- Select 11-14 hours of engineering technology courses in consultation with adviser.*

II. RELATED COURSES19

- EERT 22003, Technical Computing 3
- MATH* 11011, College Algebra 4
 - 11012, Intuitive Calculus 3
 - 11022, Trigonometry 2
- PHY 12201, 12202, Technical Physics I, II 7

III. GENERAL STUDIES COURSES14

- COMM 15000, Theory and Practice of Oral Discourse 3
 - ENG 10001, College English I 3
 - 20002, Introduction to Technical Writing 3
 - US 10001, University Orientation 1
 - Social Sciences or Humanities electives 4
- Choose from the LERs.*

TOTAL 69-72

**Tuscarawas students must take MATH 11011, 11022, 19002 (10 hours) or MATH 12001, 12002 (9 hours) due to TAC/ABET accreditation. For Tuscarawas students the Related Courses hours are 19-20 and the total hours are 72-73.*

Associate of Applied Science

Nursing

The Associate of Applied Science in Nursing is available at the Ashtabula, East Liverpool and Tuscarawas campuses. Students interested in the program should apply directly to one of these campuses and meet with the director of nursing for additional application details concerning advanced placement, etc. Detailed information and requirements for admission, satisfactory progress and graduation are in the brochure for this program. A copy of the brochure may be obtained from the program director.

With the successful completion of the program, graduates are awarded an Associate of Applied Science in Nursing degree and are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Kent State University is accredited by The Higher Learning Commission and is a member of the North Central Association. The Associate Degree in Nursing program is accredited by the National League for Nursing, Accrediting Commission, 61 Broadway, New York, NY 10006, (212) 363-5555, ext. 153.

I. NURSING COURSES*38

- NRST 10001, Foundations of Nursing Agency 5
 - 10002, Intro. to Nursing Processes 1
 - 10003, Nursing Agency I 6
 - 10004, Older Adult Dev. Self-Care 2
 - 10005, Therapeutic Use of Self 2
 - 20206, Nursing Agency II 5
 - 20207, Psychosocial Self-Care Deficits 3
 - 20208, Nursing Agency III 6
 - 20209, Maternal/Newborn Dev. Self-Care 2
 - 20210, Child and Family Dev. Self-Care 2

20211, Contemporary Nursing Issues	1
NURS 20950, Human Growth and Development for Health Professionals	3
II. RELATED COURSES	.16
BSCI 20020, Biol. Structure and Function**	5
20021, Basic Microbiology**	3
Choose either	.5
CHEM 10054, Gen. and Elem. Organic Chemistry (5)**	
or	
10050, General Chemistry (3)**	
10052, Organic Chemistry (2)**	
NUTR 33512, Nutrition**	3
III. GENERAL STUDIES COURSES	.16
ENG 10001, 10002, College English I, II	6
PSYC 11762, General Psychology	3
SOC 12050, Intro. to Sociology	3
US 10001, University Orientation	1
Elective***	3
TOTAL	70

*A grade of C or better in theory and a designation of "passing" for performance in the clinical area must be achieved for each nursing course. A GPA of 2.00 must be maintained to progress in the nursing program.

**A grade of C or better in BSCI 20020, BSCI 20021, CHEM 10054 (or CHEM 10050, 10052) and NUTR 33512 must be obtained.

***Electives must be in the area of communication, management, computer, psychology, sociology, foreign language or LERs. Permission should be obtained from the director of nursing.

The associate's degree in nursing program, Regional Campuses, reserves the right to initiate changes in the program as deemed necessary for maintaining quality nursing education.

Associate of Applied Science

Occupational Therapy Assisting Technology

The Associate of Applied Science in Occupational Therapy Assisting Technology is offered at the East Liverpool Campus. This program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, (301) 652-AOTA. With the successful completion of the program, graduates are awarded the Associate of Applied Science degree, and are eligible to sit for the

National Certification Examination for Occupational Therapy Assistants administered by the National Board for Certification of Occupational Therapists (NBCOT). Admission to the program requires admission to the university, a minimum of 40 hours of volunteer time in an occupational therapy setting, high school or college algebra and general biology, completion of the COMPASS test, and if necessary, recommended coursework. Application deadline is Jan. 15. Program applicants are encouraged to meet with the program director. Detailed information and requirements for admission, satisfactory progress and graduation are in the student handbook for this program. A copy of the handbook may be obtained from the program director.

I. TECHNICAL COURSES	.35
OTAT 10000, Intro. to Occupational Therapy	3
10001, Therapeutic Media I	3
10002, Therapeutic Techniques I - Psychosocial Dysfunction	5
20000, Therapeutic Techniques II - Physical Dysfunction	5
20001, Occupational Therapy Management Skills	2
20002, Therapeutic Media II	3
20003, Therapeutic Media III	3
20004, Therapeutic Techniques III - Developmental	3
20005, Clinical Applications	8
<i>Note: Clinical education must be successfully completed within 18 months of the didactic coursework.</i>	
II. RELATED COURSES	.16
BSCI 11001, Anatomy for Physical and Occupational Therapy	5
NURS 20950, Human Growth and Development for Health Professionals	3
PSYC 21211, Psychology of Adjustment	3
PTAT 10002, Analysis of Movement	4
20001, Therapeutic Communications	1
III. GENERAL STUDIES COURSES	.16
ENG 10001, 10002, College English I, II	6
PSYC 11762, General Psychology	3
SOC 12050, Intro. to Sociology	3
US 10001, University Orientation	1
Elective*	3
TOTAL	67

*Course to have communication or management focus.

Comprehensive Business Education Baccalaureate Degree

Students interested in a four-year degree in comprehensive business education should follow the program outlined under the

Department of Vocational Education in the College of Education section of this Catalog.

Associate of Applied Science

Physical Therapy Assisting

The Associate of Applied Science in Physical Therapy Assisting program is offered at the Ashtabula and East Liverpool campuses. With the successful completion of the program, graduates are awarded the Associate of Applied Science in Physical Therapy Assisting and are eligible to take the licensing examination given by the State of Ohio Board of Occupational and Physical Therapy. Students interested in the program should apply directly to the East Liverpool Campus or Ashtabula Campus and meet with the program director. Detailed information and requirements for admission may be obtained from the Kent State East Liverpool or the Ashtabula Campus program office.

I. TECHNICAL COURSES	.37
PTAT 10000, Intro. to Physical Therapist Assisting	2
10001, Prin. of Patient Care in Physical Therapy	4
10003, 20003, Clinical Conditions I, II	4
10004, 20004, Physical Therapy Procedures I, II	8
10005, 20005, Directed Practice in PT I, II	7
20006, Physical Rehabilitation Procedures	4
20007, Dir. Practice in Physical Therapy III	6
20008, Clinical Conditions III	2
II. RELATED COURSES	.17
BSCI 11001, Anatomy for Phys. and Occup. Therapy	5
NURS 20950, Human Growth and Development for Health Professionals	3
PHY 12111, Physics for Health Technologies	3
PTAT 10002, Analysis of Movement	4
10009, Medical Terminology	1
20001, Ther. Comm. in Physical Therapy	1
III. GENERAL STUDIES COURSES	.16
ENG 10001, 10002, College English I, II	6
PSYC 11762, General Psychology	3
SOC 12050, Intro. to Sociology	3
US 10001, University Orientation	1
Select an elective from the LERs*	3
TOTAL	70

*COMM 15000 recommended.

A grade of C or better in theory and a designation of "passing" in the clinical component must be achieved for each physical thera-

py assisting course to progress to the next course in the program sequence.

The associate's degree in the physical therapy assisting program reserves the right to initiate changes in the program as deemed necessary for maintaining quality education for the students.

Associate of Applied Science

Plastics Manufacturing Engineering Technology

This degree is offered at the Trumbull and Tuscarawas campuses. It is designed to prepare students for careers in plastics manufacturing and related industries. The program emphasizes the development of strong mathematical and analytical problem solving skills, with coursework providing a foundation in chemistry and physics. The program also incorporates computer applications in manufacturing processes and product development. Coursework focuses on the application of skills and knowledge in both simulated and actual manufacturing environments.

I. TECHNOLOGY COURSES	.36-37
Engineering Technology Core:	
EERT 22000, Electricity/Electronics with Applications	3
IERT 12005, Applications in CAD	2
MERT 12000, Engineering Drawing	3
12005, Properties of Materials	3
22002, Statics & Strength of Materials	5
22012, Fluid Power	3
Choose one of:	.2
TECH 33056, Cooperative Education (2)	
43096, Individual Investigation (2)	
Plastics Manufacturing Courses:	
PLCT 12000, Introduction to Plastics	4
12004, Properties of Plastics Materials	3
22001, Plastics Product Design	3
22002, Plastics Tool Design	3
Choose one:	.2-3
12003, Reinforced Plastics (3)	
22005, Plastics Manufacturing (2)	
II. RELATED COURSES	.18
EERT 22003, Technical Computing	3
IERT 22000, Statistical Process Control	4
MATH 12001, Algebra & Trigonometry	4
19002, Technical Math II	4
PHY 12201, Technical Physics I	3
III. GENERAL STUDIES COURSES	.15
CHEM 10054, General & Organic Chemistry	5

COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
20002, Introduction to Technical Writing	3
US 10001, University Orientation	1
TOTAL	69-70

ENG 10001, 10002, College English I, II	6
MATH 11011, College Algebra	4
PSYC 11762, General Psychology	3
US 10001, University Orientation	1
TOTAL	70

Associate of Applied Science

Radiologic Technology

The Associate of Applied Science in Radiologic Technology is offered at the Salem Campus. With the successful completion of the program, graduates are eligible to take the certification examination administered by the American Registry of Radiologic Technologists. Admission to the program is on a selective basis due to the limited number of students approved for each clinical education center. The application deadline is Feb. 1. Program applicants are encouraged to meet with an adviser at the Salem Campus to discuss the minimum admission requirements. Detailed information and requirements for admission, satisfactory progress and graduation are in the student handbook for this program. A copy of the handbook may be obtained from the program director.

I. TECHNICAL COURSES	34
RADT 14000, Intro. to Radiologic Technology	3
14001, Orient. to Clinical Radiography	2
14010, Clinical Education I	1
14011, Clinical Education II	1
14012, Clinical Education III	1
14013, Clinical Education IV	1
14019, Radiographic Exposure and Imag. I	2
14020, Radiographic Procedures I	5
14021, Radiographic Procedures II	4
14022, Radiographic Exposure and Imag. II	3
24002, Radiation Protection	3
24010, Clinical Education V	1
24011, Clinical Education VI	1
24020, Radiographic Procedures III	3
24022, Radiographic Exposure and Imag. III	3
II. RELATED COURSES	19
BSCI 11000, Principles of Anatomy for Radiologic Technology	4
COMT 11000, Introduction to Computers	3
HED 14020, Intro. to Medical Terminology	2
RADT 14002, Intro. to Patient Care	3
14004, Radiologic Physics	4
24001, Radiologic Pathology	3
III. GENERAL STUDIES COURSES	17
CHEM 10050, Fundamentals of Chemistry	3

Associate of Applied Science

Systems/Industrial Engineering Technology

This degree is available at the Trumbull and Tuscarawas campuses. Systems engineering is available as an individualized option at the Ashtabula and Salem campuses under the mechanical engineering technology program. Not all courses are available at all campuses, nor are all courses regularly scheduled. Individualized option programs must be developed in consultation with an academic adviser.

I. TECHNICAL COURSES	37
EERT 22014, Microprocessors and Robotics	4
IERT 22000, Statistical Process Control	4
22006, Economic Decision Analysis	3
22010, Computer Integrated Manufacturing	3
MERT 12000, Engineering Drawing	3
12001, Computer-Aided Drafting	4
12004, Manufacturing Processes	3
22009, Robotics and Flexible Automation	3
Choose 10 hours:	10
COMT 21008, Computer Meth. in Sci. and Eng (3)	
EERT 22004, Digital Systems (3)	
IERT 12005, Applications in CAD (2)	
22001, Motion and Time Study (3)	
22003, Supervision and Labor Relations (5)	
22004, Facilities Engineering (2)	
22005, Production and Inventory Control (2)	
22008, Taguchi Process Improvement (3)	
II. RELATED COURSES	19
EERT 22003, Technical Computing	3
MATH*11011, College Algebra	4
11012, Intuitive Calculus	3
11022, Trigonometry	2
PHY 12201, 12202, Technical Physics I, II	7
III. GENERAL STUDIES COURSES	14
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
20002, Introduction to Technical Writing	3
Social Sciences or Humanities electives	4
<i>from the LERs.</i>	

US	10001, University Orientation	1
TOTAL		70

*Tuscarawas students must take MATH 11011, 11022, 19002 (10 hours) or MATH 12000, 12001 (9 hours). For Tuscarawas students the Related Courses hours are 19-20 and the total hours are 70-71.

Associate of Technical Study (Category B)

Radiologic Technology Completion Program

The Salem Campus also offers associate's degree completion programs for certified radiologic technologists and diagnostic medical sonographers who have completed their training at an accredited institution and have been certified by the American Registry of Radiologic Technologists or American Registry of Diagnostic Medical Sonographers.

Students interested in one of these programs should apply to the Salem Campus and meet with the director of radiologic technology for additional application details. Upon admission to these programs, students will be granted 32 credit hours on the basis of their certification. In addition, they must successfully complete a minimum of 32 or 33 hours of courses selected in accordance with the following curricula:

- Associate of Technical Study in Radiologic Technology,
- Associate of Technical Study in Nuclear Medicine Technology,
- Associate of Technical Study in Radiation Therapy Technology,
- Associate of Technical Study in Diagnostic Medical Sonography.

Credits awarded on the basis of certification	32
Basic Sciences, Math*, computer technology	15
College English 10001, 10002	6
Humanities and Fine Arts	3
Social Sciences	9
University Orientation	1

*MATH 10004, Developmental Mathematics, and MATH 10005, Introduction to College Mathematics, cannot be included in this section.

The total degree will consist of 66 hours. Coursework may be pursued at any Regional Campus, but students must be advised by the director of radiologic technology, housed at the Salem Campus.

Associate of Technical Study

Radiology Department Management

Thirty-two credits are awarded on the basis of certification as radiologic technologist. In addition, the following coursework is required:

I. RELATED COURSES	20
BMRT 11000, Intro. to Business	3
11009, Intro. to Management Technology	3
21006, Human Resources Management	3
21008, Case Studies in Mgmt. Technology	3
21096, Individual Investigation	2
COMT 11000, Intro. to Computer Systems	3
RADT 21095, Special Topics:	
Contemporary Issues in Rad. Tech	3
II. GENERAL STUDIES COURSES	16-17
COMM 15000, Theory and Practice of Oral Discourse	3
ENG 10001, College English I	3
20002, Introduction to Technical Writing	3
US 10001, University Orientation	1
One of the following pairs:	6-7
BSCI 10001 and 10002	
ECON 22060 and 22061	
MATH 11011 and 11012	
PSYC 11762 and 21211	
TOTAL	
68-69	

The total degree will consist of 68-69 hours. Coursework may be pursued at any Regional Campus offering appropriate courses, but students must be advised by the director of radiologic technology, housed at the Salem Campus.

Associate of Technical Study (Category A)

The Associate of Technical Study degree program is open to students who need a specially designed course of study in a technical field. It consists of courses offered at the students' campus that suit the students' career goals. Degree programs must be planned with the help of a faculty adviser.

The program consists of a minimum of 61 semester hours of coursework, including University Orientation. At least 30 hours are made up of "technical core" courses that offer education central to students' career goals. At least 15 hours must consist of basic courses that provide background to the technical core, and

at least 15 hours must be selected from the LERs on Pages 77-80. The degree program should not exceed 73 hours.

Degree programs must be approved by the faculty adviser, the campus dean, and the dean for academic affairs, Regional Campuses. At least 32 hours must be completed after approval of the written degree program proposal.

The Associate of Technical Study may be conferred as a concurrent degree or when students already hold another degree. At least 24 hours of coursework must be completed after approval of the program, and the program must include at least 24 hours of work in addition to the prior or concurrent degree.

Forms for developing an A.T.S. program proposal can be obtained at any Regional Campus student services office.

Associate of Technical Study (Category B)

The Associate of Technical Study degree program, Category B, provides associate's degree-level completion based on a technical certificate or other formal technical training program acquired outside Kent State University. The block of credits awarded for technical training outside Kent State University is not applicable to any other degree programs. See Radiologic Technology Completion programs on Page 373 of this Catalog.

Associate of Technical Study

Industrial Trades Technology

The Geauga and Trumbull campuses offer an associate's degree completion program for students who have completed four years of apprenticeship/journeyman training. Apprentices must have completed their training from an organization working in cooperation with the Bureau of Apprenticeship and Training in the U.S. Department of Labor.

Students interested in this program should apply to Kent State Geauga or the Trumbull Campus and must meet with an adviser to be admitted to this program. Upon admission to this program, students will be granted 30 credit hours on the basis of their apprenticeship training. In addition, they must successfully complete a minimum of 35 hours of courses selected in accordance with the following curriculum:

I. TECHNICAL COURSES	30
II. RELATED COURSES	15
COMT 11000, Introduction to Computers	3
IERT 22003, Supervision and Labor Relations	5
22006, Economic Decision Analysis	3
MATH 11011, College Algebra	4
III. GENERAL STUDIES COURSES	20
COMM 15000, Theory and Practice of Oral Discourse	3
ECON 22060, Principles of Microeconomics	3
ENG 10001, College English I	3
Choose one from:	3
20001, Business Writing (3)	
20002, Introduction to Technical Writing (3)	
PSYC 11762, General Psychology	3
US 10001, University Orientation	1
General studies electives	4
<i>Select from the LERs list in this Catalog, in consultation with an academic adviser.</i>	

TOTAL 65

Coursework may be pursued at any Regional Campus, but students must be advised by an adviser at the Geauga or Trumbull campuses.

MILITARY STUDIES

AIR FORCE RESERVE OFFICER TRAINING CORPS (AFROTC)

Overview

The Air Force ROTC program provides professional preparation for students considering service as officers in the U.S. Air Force. The program offers information on Air Force career opportunities and the role of the military in the American society.

There are two primary AFROTC programs under which applicants may earn their commissions. The first is a four-year AFROTC program. It includes membership in (and completion of) the General Military Course (GMC), a four-week field training course and the Professional Officer Course (POC). The second is a two-year program designed for students who have two years of academic work remaining. In the two-year program, students are selected to participate in the POC program and attend a five-week field training course, which includes coursework covered during the freshman and sophomore years. Both programs result in a commission as a second lieutenant in the United States Air Force. Periodically the Air Force activates a one-year program to attract students majoring in fields in which the Air Force has a manpower shortage.

CURRICULUM

Registering

Courses normally are taken for academic credit as part of the students' electives. Entering freshmen and sophomores may register for aerospace studies courses at the same time and in the same manner as they enroll in their other college courses. Juniors and seniors wishing to enroll in AFROTC should call the AFROTC unit admissions officer prior to enrollment to discuss the particular requirements.

The curriculum in aerospace studies is divided into two parts: the General Military Course, (usually taken during the freshman and sophomore years), and the Professional Officer Course, (normally taken during the junior and senior years). Air Force officers are assigned as full-time faculty members and teach all aerospace studies courses. Freshmen may register for ASTU 10101 and 10103 for the fall term and ASTU 10102 and 10104 for the spring term; sophomores may register for ASTU 20101 and 20103 for the fall term and ASTU 20102 and 20104 for the spring term. The courses include 1 hour of academic instruction and a 2-hour leadership laboratory each week. Nonscholarship students incur no military obligation when enrolled in freshman- and sophomore-level courses. Juniors will register for ASTU 30101 and 30103 for the fall term and ASTU 30102 and 30104 for the spring term. Continuing seniors in the AFROTC program will register for ASTU 40101 and 40103 for the fall term and ASTU 40102 and 40104 for the spring term. Due to the excellent leadership and management training, as well as the hands-on experience in the POC, the students are eligible to receive additional credit for activities completed while in the

program. The students can receive credit for their performance at Field Training (ASTU 20105 and 20106) and based on the positions and responsibilities held while training other cadets (ASTU 30192).

The General Military Course

The General Military Course (GMC) is offered in four-sequenced lower-division aerospace studies courses. Each course consists of 1 hour of academic instruction per week and 15 leadership laboratory contact hours per semester. Nonscholarship membership in the GMC affords students the opportunity to learn about the Air Force and its role in the American society. Students who do not want commissions may take the aerospace studies courses for academic credit only. There is no military obligation incurred by enrolling in the GMC.

The Professional Officer Course

The Professional Officer Course (POC) is a four-part upper-division aerospace studies course. Each course consists of 3 hours of academic instruction per week and 15 leadership laboratory contact hours per semester. Entrance into the POC is limited to qualified students desiring to compete for Air Force commissions. Enrollment in this program is based upon a cumulative GPA, physical qualifications and leadership potential.

Veterans with previous honorable, active, U.S. military service who wish to enroll in the POC may be eligible for a waiver of either the GMC or its equivalent as an entrance requirement. Veterans who meet all other requirements will be enrolled at the beginning of their junior year.

Uniforms and textbooks are provided at no charge to all students enrolled in AFROTC. Textbooks are returned upon completion of each academic year or upon withdrawal from the course. Uniforms are returned upon withdrawal from the course.

FINANCIAL ASSISTANCE

Students who demonstrate academic and leadership potential may be selected by the professor of aerospace studies to compete for scholarships. These scholarships are for three or two years, and are awarded in all majors. The scholarship award includes tuition, textbook allowance, some course fees and a monthly tax-free stipend.

Incentive Scholarship Program

Air Force ROTC students in the General Military Course (specifically sophomores) are eligible for \$1,500 per year for tuition, and a \$300-per-month stipend. Students enrolled in the Professional Officer Course (juniors and seniors) who are not already on scholarship are eligible for \$1,500-per-semester tuition scholarships, \$225 per semester for books, plus a \$350-\$400-per-month stipend. This award is limited to four total semesters (up to \$9,600) and cadets must be in good academic standing.

Scholarship Statement of Understanding

Air Force ROTC scholarship recipients must meet and maintain certain academic and military retention standards and serve in the active-duty Air Force after graduation.

CONTACT INFORMATION

For further information, contact the Department of Aerospace Studies, AFROTC DET 630, 104 Terrace Hall, Kent State University, Kent, OH 44242 at (330) 672-2182 or e-mail afrotc@kent.edu.



ARMY RESERVE OFFICER TRAINING CORPS (ARMY ROTC)

Overview

Kent State University's tradition of Army ROTC began in 1947, and more than 1,100 students have been commissioned as officers in the U.S. Army. Army ROTC falls under the military science course heading and offers a two- to four-year course of study that adds practical leadership and management training and leadership experience to students' chosen academic degree. All students, undergraduate and graduate, are eligible to participate in the Army ROTC program.

Students whose career goals require leadership or managerial skills, those with an interest in the national defense structure and role of the military in society, or those students wishing to explore the financial benefits of the ROTC program and the Army are encouraged to enroll in the introductory lower-division military science courses. These courses can be applied as elective credit toward most undergraduate degrees. Enrolling in military science courses follows the same procedure as other university courses. Participation is voluntary and requires no military obligation.

CURRICULUM

The military science curriculum is unified by the study of leadership, discipline and personnel management. Students will study leadership theory and dynamics through case studies, Army doctrine, military history and practical exercises. The program is divided into two segments: the Basic Course and the Advanced Course.

Basic Course

The Basic Course introduces students to the role of the military in our society, the fundamentals and dynamics of leadership and management, and the practical application of these fundamentals. There is no military obligation for enrolling in any of the Basic Course classes, and all undergraduates are eligible to enroll. Freshmen are encouraged to enroll in MSCI 10180 and MSCI 10185 with the accompanying leadership lab MSCI 10190. Sophomores are encouraged to contact the program's enrollment officer for guidance on military science placement. Students who have prior military service through active or reserve components can receive basic course credit and are eligible for placement into the Advanced Course.

Advanced Course

The Advanced Course enhances the preparation of the professional officer. The advanced military science courses are open to both undergraduate and graduate students who have completed the Basic Course requirements. These upper-division courses involve military leadership, Army logistics, personnel management principles, ethics and military law. An additional 32-day summer practicum allows students to put into practice all their learned skills while being constantly evaluated on their leadership abilities.

FINANCIAL ASSISTANCE PROGRAMS

Scholarships

Students who demonstrate academic and leadership potential may apply for Army ROTC four-, three- and two-year scholarships. The scholarship pays tuition and fees (excluding flight fees) up to \$9,000; \$250-, \$300-, \$350- or \$400-per-month tax-free grant and \$600-per-year book allowance. Two- and three-year scholarship applications are available only on campus and are under the immediate control of the Army ROTC program. Currently, Kent State's Army ROTC program has several scholarships to award in each academic year. Applications are taken year-round, and awards are given during spring semester. Scholarship eligibility criteria include: college GPA, ACT/SAT results (three-year applicants only), extracurricular activities and work, an interview and review board. Four-year scholarship applications are due by Nov. 15 of the students' senior year in high school. Those who are interested may contact our office, their local guidance counselor, or call (800) USA-ROTC for an application. All scholarships are awarded based on merit rather than need and on-campus scholarships are on a first-come basis. All academic majors are eligible to apply.

University Incentives

For students interested in participating or are currently enrolled, Kent State University has given our ROTC program 16 dormitory room incentives and \$12,500 to use toward discretionary scholarships. These incentive scholarships are awarded annually to scholarship students in our program.

OTHER PROGRAMS AND INFORMATION

Simultaneous Membership Program

Members of the Army National Guard or Army Reserves or students who have completed the ROTC Basic Course are eligible to participate in the Simultaneous Membership Program (SMP). SMP students serve as officer trainees in a local National Guard or Reserve unit while attending full time at Kent State University and taking military science classes. Upon graduation and completion of the ROTC program, SMP students will receive a commission as a second lieutenant in the National Guard or Reserves, or go on active duty. In addition to becoming officers, students will receive all eligible financial benefits of the National Guard or Reserves (i.e., 100 percent tuition, GI Bill with more than \$2,000, up to \$10,000 in student loan repayment, and annual part-time pay of more than \$2,800) and \$250 per month for ROTC. All students currently participating in a National Guard or Reserve program while attending Kent State University should look into the Army ROTC program. Service time while in school counts toward your military commitment.

Leader's Training Course (LTC)

Students who have not taken the Basic Course classes but wish to pursue a commission and receive some financial benefits of the ROTC program can attend a 35-day summer camp in lieu of the two-year Basic Course. Leader's Training Course (LTC) teaches the skills required to complete the on-campus program and, additionally, offers students practical leadership experience by performing as cadet leaders throughout the camp. LTC is challenging, both mentally and physically. Upon completion, students are eligible for placement in the Advanced Course, two-year scholarship benefits and entrance into the SMP program (see above). In addition to LTC, there are other "Alternative Entry Options" to begin your ROTC Advanced Course program—contact us.

Career Opportunities

The Army has 25 branches with literally hundreds of job descriptions for newly commissioned officers. Areas such as communications, finance, military intelligence, Corps of Engineers, military police, nursing, etc., offer the new officer a variety of career options. A second lieutenant going on active duty (as of 2002) starts out at more than \$33,000 and exceeds \$46,000 within four years of service. Additional benefits include: full retirement after 20 years of service, 30 days of paid vacation, 100 percent medical and dental coverage, and \$250,000 worth of life insurance. A commission into a reserve component brings earnings ranging from \$3,500 and \$4,500 annually for 39 days of duty. Whether the Army is a career aspiration or a résumé-building first job, the opportunities are limitless.

Departmental Programs

Students may elect to participate in activities beyond their course of study. Adventure activities such as mountaineering, rappelling, rifle marksmanship, physical conditioning and land navigation are examples of other programs complementing the military science study. Airborne and Air Assault School training also is available to qualifying students.

ROTC offers a drill team/color guard that trains and performs at university functions as well as community service events. Members do not need to enroll in ROTC to participate.

The ROTC Cadet Ranger team is a training-oriented student group emphasizing leadership experiences, group dynamics and advanced military skills. Team members compete in regional competitions against other university programs.

Miscellaneous

The following are some final highlights of the Army ROTC program.

- Nursing students are encouraged to consider ROTC. There are nursing scholarships available, and recipients are guaranteed a nursing position after graduation.
- U.S. Army Specialty slots to Airborne School, Air Assault School, Northern Warfare School, Survival Training and others are available annually to enrolled student-cadets.
- We provide textbooks and uniforms. All materials needed for our courses are provided by the Department of Military Science.
- Students who enter active military service after graduation may defer payment of national direct student loans or nursing student loans for up to three years.
- The Department of Military Science also offers the cadets "staff rides," trips to historic sites where military campaigns and history are studied. Staff rides include the cost of transportation and lodging. Past trips included sites such as Niagara Falls, Canada and Gettysburg.

Contacts and Information

The Army ROTC staff at Kent State University is available year-round to provide additional information or answer questions concerning these academic programs, scholarship opportunities and enrollment requirements. The office is located in 106 Terrace Hall on the university's Kent Front Campus and can be reached by telephone at (330) 672-2769, fax (330) 672-3690 or on the Web at www.kent.edu/rotc.

SERVICE-MEMBERS OPPORTUNITY COLLEGES

Kent State University is a member of Service-Members Opportunity Colleges, a consortium of over 1300 institutions pledged to be reasonable in working with service members and veterans trying to earn degrees even while pursuing demanding, transient careers. As a SOC member, we are committed to easing the transfer of relevant course credits, providing flexible academic residency requirements, and credit learning from appropriate military training and work experiences. SOC is sponsored by 15 national higher education associations with the military services, the National Guard bureau and the Office of the Secretary of Defense serving as cooperating agencies.

COMBINED BACCALAUREATE AND MASTER'S PROGRAM

Persons with outstanding undergraduate records or exemplary professional credentials may be eligible for one of the following enrollments in a combined baccalaureate and master's program:

- I. **A Combined Baccalaureate/Master's for Degree Students Early In Their Undergraduate Studies**
Students who have achieved a GPA of
3.50 after 60 semester hours
3.40 after 75 semester hours
3.30 after 90 semester hours
or 3.20 after 105 semester hours
may apply for early admission to a master's degree program by:
 - A. Completing the Application for Admission.
 - B. Completing the Combined Baccalaureate and Master's Program form, which includes:
 1. Listing the courses at the undergraduate level that need to be taken for the baccalaureate degree.
 2. The beginning date for graduate study.
 3. Listing of graduate courses to be utilized in satisfying the undergraduate degree. (In participating departments/schools, students may apply up to 12 of their accumulated graduate hours toward the completion of their undergraduate degree requirements as well. The students' undergraduate department will determine the undergraduate coursework for which graduate credits may be substituted.) In some departments graduate coursework may be substituted only for elective undergraduate coursework and cannot be used as substitution within the major. (Please check with the graduate coordinator in your individual department.) The selection of the graduate coursework and the number of credits to be applied toward an undergraduate degree requires the approval of the graduate chair in the students' academic department and the appropriate undergraduate and graduate deans.
 - C. Providing three letters of recommendation from the instructors who are familiar with the students' achievements and intended academic goals.
 - D. Submitting any needed test scores from standardized examinations.
- II. **Combined Baccalaureate/Master's Program for Specified Professional Programs**
 - A. Combined Baccalaureate/Master's Degree Program in Speech Pathology and Audiology Leading to Clinical Certification
Students who have earned 90 semester hours and achieved a minimum GPA of 3.00 may, with approval of the School of Speech Pathology and Audiology, apply for admission to the combined program. Admission will be based upon satisfactory GRE scores, three letters of recommendation and completion of the Application for Admission and Combined Baccalaureate and Master's Program forms.
 - B. The Combined Baccalaureate/Master's Program in the School of Architecture and Environmental Design Leading to the Bachelor of Architecture and Master of Architecture Degrees
Students who have earned 105 semester hours and achieved a minimum GPA of 3.00 may, with approval of the School of Architecture, apply for admission to the combined program. Admission will be based upon satisfactory portfolio review, three letters of recommendation and completion of the Application for Admission and Combined Baccalaureate and Master's Program forms. Students who have completed a Bachelor of Science in Architecture elsewhere, with a minimum GPA of 3.00, and have been accepted into the Bachelor of Architecture program at Kent State University may apply for the combined program. Students may apply up to 10 hours of specific graduate credit to the Bachelor of Architecture degree program.
 - C. Combined Baccalaureate/Master's Program in the College of Business Administration
Students must have earned 90 semester hours to apply for the Combined Baccalaureate/Master's Program in the College of Business Administration. In addition, they must meet the GPA requirements outlined under Item I.
 - D. Combined Baccalaureate/Master's Program in the Center for International and Comparative Programs and the Graduate School of Management Leading to the Bachelor of Arts and Master of Business Administration Degrees
Students must be an international relations major and complete their major in the first three years of study. In addition, students must pass a language proficiency exam, have a cumulative GPA of 3.30 and earn a minimum GMAT score of 525 before being admitted to the M.B.A. program. In the fourth year of this combined program, students take graduate business courses that are applicable to the under-

graduate degree as electives and to the M.B.A. degree as foundation coursework. During the final year, students take advanced graduate business coursework leading to the M.B.A. degree.

E. The Combined Bachelor of Science/Master of Arts Degrees in Visual Communication Design

This is a five-year degree program with optional concentrations in 2D graphic design, 3D graphic design and illustration. Students who pass the junior portfolio review, complete a minimum of 90 semester hours, demonstrate excellence in formal organization and conceptual problem-solving abilities and technical skills and maintain a minimum 3.00 overall GPA and a 3.25 in the major will be invited or may petition to enter this program. An overall GPA of 3.00 and a major GPA of 3.00 in both the bachelor's and master's programs will be required for graduation.

III. A Nontraditional Master's Degree Student

In rare instances, persons who have not completed a baccalaureate degree will be considered for admission to the appropriate graduate unit due to unusual and exemplary experiential learning. Such applicants may apply for admission by presenting for departmental consideration a curricular plan encompassing undergraduate and graduate coursework to achieve a liberal educational background and professional graduate degree and three letters of recommendation attesting to their potential for graduate study. Upon departmental recommendation and the approval of the dean of the appropriate graduate unit, the applicants will be admitted to undertake graduate work. Upon successful completion of the curricular plan and the particular master's degree requirements, the students will be awarded the master's degree.





THE COLLEGE OF CONTINUING STUDIES

204 Michael Schwartz Center
(330) 672-3237
<http://ccs.kent.edu>

COLLEGE OF CONTINUING STUDIES

The College of Continuing Studies, in cooperation with academic units, sponsors quality, nontraditional academic programs. The College of Continuing Studies includes Evening and Weekend programs, Gerontology Center, the Division of Lifelong Learning, Office of Public Service and Outreach and Summer Sessions. Visit our Web site for details: <http://kentstatecontinuinged.com>.

EVENING AND WEEKEND PROGRAMS

Evening and Weekend programs are for people who find the traditional daytime schedule of classes inaccessible. Most evening and weekend students are adults employed full time or part time and have additional family responsibilities. Evening and weekend programs permit students to complete requirements for a limited number of undergraduate degrees.

Majors offered in the evening and weekend include: accounting, advertising, business management, computer science (applied math), justice studies, economics, English, finance, general studies, gerontology, history, hospitality food service management, information systems, individual and family studies, interior design, news, operations management, marketing, psychology, public relations, rhetoric and communication, technology and visual communication design.

If you are an adult student interested in attending the evening and weekend programs, please contact the Office of Adult Services, (330) 672-7933.

GERONTOLOGY CENTER

The Gerontology Center serves as a resource to the community regarding issues, concerns and needs of the senior adult population. Through the collaborative efforts of the Office of Public Service and Outreach in the College of Continuing Studies, the School of Family and Consumer Studies and various professors with an interest in gerontological studies, the center is able to provide a variety of learning opportunities to the senior population, as well as to students and professionals in the field of aging. For more information about the Gerontology Center call (330) 672-2002 or visit our Web site: <http://ccs.kent.edu/Geron1/GC.html>.

LIFELONG LEARNING

The Division of Lifelong Learning administers both credit and non-credit programs to meet lifelong learning needs of the university and the professional community. In addition, for students enrolled at the Kent Campus for at least 11 and not more than 18 credit hours during fall or spring semester (including workshop credit hours), the tuition portion of the credit workshop fee is included in the full-time fees for the semester. All credit workshops are graded satisfactory/unsatisfactory (S/U).

In cooperation with other academic and service units at the university, the Division of Lifelong Learning offers credit workshops, conferences, noncredit courses and seminars for professionals in business, education, health care and other fields. In partnership with the College of Business Administration, the division provides customized training and consulting to organizations through the Center for Executive Education and Development. To receive additional information, contact the College of Continuing Studies, 204 Michael Schwartz Center, (330) 672-3237, or visit our Web site: <http://kentstatecontinuinged.com>.

PUBLIC SERVICE AND OUTREACH

The Office of Public Service and Outreach develops, manages and cosponsors learning opportunities for the enrichment of special target populations and community development. The Summer Youth Program and Intensive English as a Second Language programs are among these opportunities. To receive additional information, contact the College of Continuing Studies, 204 Michael Schwartz Center, (330) 672-3237, or visit our Web site: <http://kentstatecontinuinged.com>.

SUMMER SESSIONS

Educational opportunities for all students are available through Kent State University's comprehensive summer sessions. Summer on the beautiful Kent Campus is a special time of growth and development for many students. The trees, the carefully tended flower beds and air-conditioned classrooms, combined with an outstanding program of more than 1,500 course offerings, make Kent State an ideal place for students to expand their horizons under the most favorable conditions.

Summer sessions at Kent State University begin in May with a three-week intensive intersession and continue with two consecutive five-week terms and an overlapping eight-week term. Daytime and evening courses are included. A variety of workshops, both credit and noncredit, are available in addition to regular credit classes.

To obtain a summer schedule booklet, contact the Office of Summer Sessions, 204 Michael Schwartz Center, (330) 672-3233 after March 1; you may FAX a request to (330) 672-2079, e-mail Gloria@ccs.kent.edu or visit our Web site at <http://kentstatecontinuinged.com>.