Click on the program name within the degree requirements to go to the course descriptions.

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THE COLLEGE OF NURSING
Advising Offices are Located in:

113 and 216 Henderson Hall
330-672-7930
http://www.kent.edu/nursing/
COLLEGE OF NURSING

The Kent State University College of Nursing provides a course of study at the baccalaureate, master’s and doctoral 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 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
    Select from the LERs on Page 81.
III. Humanities and Fine Arts ....................................... 9
    Select from the LERs on Page 82.
IV. Social Sciences .................................................. 9
    PSYC 11762, General Psychology ................................. 3
    SOC 12050, Intro. to Sociology .................................. 3
    One course ..................................................... 3
    Select from the LERs on Page 82.
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 Requirements. One course must be taken from the Liberal Education Requirements (LER) list and the second from the courses listed on Page 85 of this Catalog.

Writing-Intensive Course Requirement
Refer to either Pages 68 or 89-91 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.

III. THIRD YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30050, Human Genetics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 30000, Professional Nursing Concepts</td>
<td>2</td>
</tr>
<tr>
<td>30010, Parent and Newborn Nursing</td>
<td>4</td>
</tr>
<tr>
<td>30020, Health Care of Children</td>
<td>4</td>
</tr>
<tr>
<td>30030, Nursing of Adults</td>
<td>5</td>
</tr>
<tr>
<td>30040, Nursing of Adults with Rehab. Needs</td>
<td>4</td>
</tr>
<tr>
<td>and/or Gerontologic Changes</td>
<td></td>
</tr>
<tr>
<td>30050, Basic Nursing Informatics</td>
<td>2</td>
</tr>
</tbody>
</table>

Statistics (one of the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 10041, Elem. Prob. and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 21621, Quant. Methods in Psych.</td>
<td></td>
</tr>
<tr>
<td>SOC 32220, 32221, Data Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives from Humanities***

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electives from Humanities</strong>*</td>
<td>6</td>
</tr>
</tbody>
</table>

IV. FOURTH YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 40000, Professional Nursing Development</td>
<td>2</td>
</tr>
<tr>
<td>40010, Nursing of the Critically Ill</td>
<td>4</td>
</tr>
<tr>
<td>40020, Community Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>40030, Psychiatric Nursing and Mental Health Care</td>
<td>4</td>
</tr>
<tr>
<td>40040, Leadership and Management in Nursing</td>
<td>4</td>
</tr>
<tr>
<td>40050, Nursing Integration Practicum</td>
<td>3</td>
</tr>
<tr>
<td>40872, Intro. to Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC or SOC elective (upper division)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective from Fine Arts**</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 129

*Offered fall semester only.

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

***See nursing LERs, Page 337.

****See diversity courses Page 85.

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 MetroHealth in Cleveland; Akron General Medical Center, Summa Health System—(Akron City and St. Thomas hospitals), and Children’s Hospital Medical Center of Akron; Barberton Citizens Hos-
College of Nursing

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 usually begins 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 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. Space is limited.

Registered Nurses
Transition nursing courses are available for registered nurses. Twenty-three semester hours of required nursing courses are available via distance learning technology. In addition, credit may be established in selected arts and sciences courses through examination. Non-nursing courses are available throughout the eight-campus network.

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, Geauga, Salem, Stark and Trumbull campuses. Senior-level nursing courses are available at all 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; and 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 (2.00) 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; and completion of BSCI 30060, Human Genetics, with a 2.00 GPA.

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. Placement for retaking of nursing courses is on a space-available basis.

Students attaining two failures in clinical nursing courses are automatically dismissed from the nursing program. A clinical course in which an F (0) is received must be repeated before progression in any other clinical course. A grade of at least a C (2.00) must be obtained on repeat to avoid dismissal from the nursing program.

Clinical Placement Experiences
Please be aware that some clinical placement experiences may require a criminal background check for the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>20020</td>
<td>Foundations of Assessment and Communication in Nursing</td>
</tr>
<tr>
<td>20030</td>
<td>Foundations of Nursing Interventions</td>
</tr>
<tr>
<td>30010</td>
<td>Parent and Newborn Nursing</td>
</tr>
<tr>
<td>30020</td>
<td>Health Care of Children</td>
</tr>
<tr>
<td>30030</td>
<td>Nursing of Adults</td>
</tr>
<tr>
<td>30040</td>
<td>Nursing of Adults with Rehab Needs and/or Gerontologic Changes</td>
</tr>
<tr>
<td>40010</td>
<td>Nursing of the Critically Ill</td>
</tr>
<tr>
<td>40020</td>
<td>Community Health Nursing</td>
</tr>
<tr>
<td>40030</td>
<td>Psychiatric Nursing and Mental Health Nursing Care</td>
</tr>
<tr>
<td>40040</td>
<td>Leadership and Management in Nursing</td>
</tr>
<tr>
<td>40050</td>
<td>Nursing Integration Practicum</td>
</tr>
</tbody>
</table>

Graduation
The 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
- Nurse Liability Insurance, $93
- 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 and fingerprinting for licensure, level testing 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 Federal Nursing Scholarship Program
- Jay S. Cole Scholarship
- Federal Nursing Student Loan Program
- 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

2005-2006 Kent State University Undergraduate Catalog
THE SCHOOL OF TECHNOLOGY
Advising Offices are Located in:

119 Van Deusen Hall
330-672-2892
http://www.tech.kent.edu
sotinfo@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 nationally accredited technology-based programs that will provide students with the skills needed to compete in today’s job market.

More than 25 programs are offered at the certificate, associate’s, bachelor’s and master’s degree levels throughout Kent’s eight-campus network. With a talented faculty and flexible 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 associate’s degree programs can be applied toward the “2+2” program for a B.S. 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 81-83).

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 68 or 89-91 of this Catalog for specific information on the Writing-Intensive Course Requirement.

BACHELOR OF SCIENCE DEGREE

This program provides a liberal education within our technological culture for students contemplating careers in technical-industrial fields. Courses in the major provide breadth of technical experience, while electives may be utilized to increase competencies in one or more areas. This degree program is accredited by the National Association of Industrial Technology (NAIT).

I. Composition

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

II. Mathematics, Logic and Foreign Languages

MATH 12001, Algebra and Trigonometry 4
Select 3 hours from the LERs 3

III. Humanities and Fine Arts

COMM 15000, Introduction to Human Communication 3
Humanities in Arts and Sciences LER 3
Fine Arts LER 3

IV. Social Sciences

ECON 22060, Principles of Microeconomics 3
PSYC 11762, General Psychology 3
31773, Industrial Psychology 3
Select 3 hours from the LERs 3

V. Basic Sciences

PHY 13001, General College Physics I (5)
13002, General College Physics II (5)
or
PHY 12201, Technical Physics I (3)
12202, Technical Physics II (4)
and 3 hours from Basic Science LER courses (3)

VI. US 10001, University Orientation 1

VII. Major Requirements: 39

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
23581, Computer-Aided Engineering Graphics ....... 3
31000, Cultural Dynamics of Technology ............. 3
31015, Construction Technology ........................ 3
31016, Manufacturing Technology .................... 3
31087, Design for Technology ........................ 3
32002, Materials and Processes II .................. 3
43800, Applied Engineering Technology Seminar ...... 2

VIII. Technology electives .................................. 14
IX. General electives .......................................... 15
X. Business courses ........................................... 6
Choose 3 hours from: ........................................ 3
M&IS 24163, Principles of Management ............... 3
M&IS 24056, Fundamentals of Business Statistics (3)
34180, Human Resource Management (3)
44063, Quality and Cost Control (3)
44150, Total Quality Management (3)

TOTAL 122

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

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. Minimum of 2.25 GPA required in major.

The courses chosen to fulfill the curriculum must satisfy university Diversity Requirements.

“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 advisor, 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. These options are accredited by NAIT.

General Option

I. Composition .................................................... 9
ENG 10001, 10002, College English I, II ................ 6
Choose one course from: .................................. 3
ENG 20002, Introduction to Technical Writing (3)
ITAP 26638, Business Communications (3)

II. Mathematics, Logic and Foreign Languages .......... 7
Select 3 hours from LERs ................................. 3
Choose one course from: .................................. 4
MATH 11011, College Algebra (4)
12001, Algebra and Trigonometry (4)

III. Humanities and Fine Arts ................................. 9
Humanities and Fine Arts LER ........................... 3
Humanities in Arts and Sciences LER .................. 3
Fine Arts LER .................................................. 3

IV. Social Sciences .............................................. 9
Select 9 hours from LERs.

V. Basic Sciences ................................................ 9
At least 6 hours must be laboratory science courses. Select the remaining 3 hours from LERs.
CHEM 10030, Chemistry in Our World (3)
10050, Fundamentals of Chemistry (3)
10052, Introduction to Organic Chemistry (2)
10053, Inorganic and Organic Laboratory (1)
  (corequisite CHEM 10052)
10054, General and Elementary Organic Chemistry (5)
GEOL 11040, Earth Dynamics (3)
11041, Earth Dynamics Lab (1)
  (pre-or corequisite GEOL 11040)
11042, Earth History (3)
11043, Earth History Lab (1)
  (pre- or corequisite 11042)
PHY 12001, 12002, Technical Physics I, II, (3,4)
13001, 13002, General College Physics I, II (5 each)
13011, 13012, College Physics I, II (3 each)
PSCI 11660, 11661, Physical Science (3 each)

VI. US 10001, University Orientation ...................... 1
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. Elective choices must include three courses of management concepts or practice with not more than one from concepts.
Graduation from the program requires an approved associate’s degree. Minimum of 2.00 overall GPA required for graduation with a minimum of 2.00 GPA in upper-division TECH courses. Upper-division technology electives must be chosen with faculty advisor. 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 Option

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
11022, Trigonometry .................................. 2
11012, Intuitive Calculus ............................ 3

III. Humanities and Fine Arts .......................... 9
COMM 15000, Introduction to Human Communication .... 3
PHIL 21001, Introduction to Ethics .................. 3
Choose one course from: ............................. 3
ARTH 22006, Art History I (3) ...
22007, Art History II (3)

IV. Social Sciences ...................................... 9
ECON 22060, Principles of Microeconomics ........ 3
22061, Principles of Macroeconomics ............. 3
SOC 12050, Introduction to Sociology .............. 3

V. Basic Sciences ........................................ 9
PHY 11030, Seven Ideas that Shook the Universe .... 3
12001, Technical Physics I .......................... 3
Select from LER lab sciences ......................... 3

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

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

VIII. Technology Courses ............................... 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
ARTF 14000, Drawing I ............................... 3
BMRT 11000, Introduction to Business .......... 3
IERT 22006, Econ. Decision Analysis .............. 3
TECH 33056, Cooperative Education ................. 2
Choose one course from: ............................. 2
COMT 21092, Computer Practicum (2)
IERT 22095, ST: Productivity Software (2)

TOTAL 121

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

Electrical/Electronics Option

I. Composition ............................................. 9
ENG 10001, 10002, College English I,II .......... 6
Choose one of the following: 3

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

II. Mathematics, Logic and Foreign Languages 7-9

MATH*12001, Algebra and Trigonometry 4

Choose one course from: 3-5

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

III. Humanities and Fine Arts 9

COMM 15000, Introduction to Human Communication 3
PHIL 21001, Introduction to Ethics 3
Fine Arts LER 3

IV. Social Sciences 9

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

V. Basic Sciences 10

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

or

PHY 12201, Technical Physics I (3)
12202, Technical Physics II (4)
and 3 hours from Basic Science LER courses (3)

VI. US 10001, University Orientation 1

VII. Major Requirements 34

Credits for Associate of Applied Science in Electrical/Engineering Technology.

VIII. Technology Courses 18

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

Choose one course from: 3

TECH 31000, Cultural Dynamics of Technology (3)
33056, Cooperative Education (3)

Choose two courses from: 6

TECH 31032, Power Technology (3)
32223, Electronic Communication (3)
43220, Electrical Machinery (3)

IX. General Electives 22-24

Minimum of 12 hours upper-division. Elective choices must include two courses of management practice; course prerequisites must be met.

Management Practice:

ACCT 33063, Cost Control and Analysis for Management (3)
BMRT 11000, Introduction to Business (3)
11009, Introduction to Management Technology (3)
21005, Purchasing and Supply Management (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)
IERT 22006, Economic Decision Analysis (3)
M&IS 24163, Principles of Management (3)
34060, Operations Management (3)
34165, Dynamics of Leadership (3)
34180, Human Resource Management (3)
44150, Total Quality Management (3)
MFGT 12010, Safety in the Workplace (2)
SOC 42564, Bureaucratic Organizations (3)
TECH 43080, Industrial and Environmental Safety (3)

TOTAL 121

*MATH 11011 and 11022 may be substituted for MATH 12001.

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

Manufacturing/Mechanical/Systems Option

I. Composition 9

ENG 10001, 10002, College English I,II 6

Choose one course from: 3

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

II. Mathematics, Logic and Foreign Languages 7-9

MATH*12001, Algebra and Trigonometry 4

Choose one course from: 3-5

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

III. Humanities and Fine Arts 9

COMM 15000, Introduction to Human Communication 3
PHIL 21001, Introduction to Ethics 3
Fine Arts LER 3

IV. Social Sciences 9

Select from the LERs 9

V. Basic Sciences 10

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

or

PHY 12201, Technical Physics I (3)
12202, Technical Physics II (4)
and 3 hours from Basic Science LER courses (3)

VI. US 10001, University Orientation 1

VII. Major Requirements 34

Credits from Associate of Applied Science in Manufacturing, Mechanical, or Systems/Industrial Engineering Technology.
VIII. Technology Courses .................................................. 21

Choose 6 courses from the following: .......................... 18

TECH 31020, Automated Manufacturing (3)
31032, Power Technology (3)
31065, Cast Metals (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 course from: ................................................. 3

TECH 31000, Cultural Dynamics of Technology (3)
33056, Cooperative Education (3)

IX. General Electives ...................................................... 19-21

Minimum of 6 hours upper-division. Elective choices must include three courses of management concepts or practice with not more than one from concepts.

Management Concepts:
ACCT 23020, Introduction to Financial Accounting (3)
ACTT 11001, Accounting II - Managerial (4)
BMRT 21000, Business Law and Ethics I (3)
COMM 25863, Business and Professional Communication (3)
TECH 43080, Industrial and Environmental Safety (3)
TOTAL 121

*MATH 11011 and 11022 may be substituted for MATH 12001.

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

Plastics Manufacturing Option

I. Composition .......................................................... 9

ENG 10001, 10002, College English I,II ............................ 6

Choose one course from: .............................................. 3

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

II. Mathematics, Logic and Foreign Languages ................. 7-9

MATH*12001, Algebra and Trigonometry ........................ 4

Choose one course from: .............................................. 3-5

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

III. Humanities and Fine Arts ......................................... 9

COMM 15000, Introduction to Human Communication .......... 3
PHIL 21001, Introduction to Ethics ................................. 3
Fine Arts LER ......................................................... 3

IV. Social Sciences ...................................................... 9

ECON 22060, Microeconomics ...................................... 3
Select from the LERs .................................................. 6

V. Basic Sciences ...................................................... 9

Select from the LERs .................................................. 9
At least 6 hours must be laboratory science courses.

VI. US 10001, University Orientation ............................... 1
VII. Major Requirements ................................................ 34

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

VIII. Technology Courses .............................................. 15

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 Electives ................................................... 26-28

Minimum of 12 hours upper-division. Elective choices must include one course of management practice.

Management Practice:
ACCT 33063, Cost Control and Analysis for Management (3)
BMRT 11000, Introduction to Business (3)
School of Technology

11009, Introduction to Management Technology (3)
21005, Purchasing and Supply Management (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)

**IERT**
22006, Economic Decision Analysis (3)

**M&IS**
24163, Principles of Management (3)
34060, Operations Management (3)
34165, Dynamics of Leadership (3)
34180, Human Resource Management (3)
44150, Total Quality Management (3)

**MFGT**
12010, Safety in the Workplace (2)

**SOC**
42564, Bureaucratic Organizations (3)

**TOTAL** 121

*MATH 11011 and 11022 may be substituted for MATH 12001.

Graduation from the program requires an approved associate's degree. Minimum of 2.00 overall GPA required for graduation with minimum of 2.00 GPA in upper-division TECH courses. The courses chosen to fulfill the curriculum must satisfy university Diversity and Writing-Intensive Course Requirements.

**BACHELOR OF SCIENCE DEGREE**

**Technology Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Composition</td>
<td>9</td>
</tr>
<tr>
<td>ENG 10001, 10002, College English I, II</td>
<td>6</td>
</tr>
<tr>
<td>20002, Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>II. Mathematics, Logic and Foreign Languages</td>
<td>7</td>
</tr>
<tr>
<td>MATH*12001, Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>Math/Logic/Foreign Language LER</td>
<td>3</td>
</tr>
<tr>
<td>III. Humanities and Fine Arts</td>
<td>9</td>
</tr>
<tr>
<td>COMM 15000, Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>Humanities LER</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts LER</td>
<td>3</td>
</tr>
<tr>
<td>IV. Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>PSYC 11762, General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>31773, Industrial Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 hours from the LERs</td>
<td>6</td>
</tr>
<tr>
<td>V. Basic Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Select 9 hours from the Basic Sciences LERs. At least 6 hours must be from courses including a laboratory component.</td>
<td></td>
</tr>
<tr>
<td>VI. US 10001, University Orientation</td>
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</tr>
<tr>
<td>VII. Technology Requirements</td>
<td>40</td>
</tr>
</tbody>
</table>

**TECH**
10001, Information Technology                                         | 3       |
11071, Woods Technology I                                              | 3       |
13580, Engineering Graphics I                                           | 3       |
20001, Energy/Power                                                    | 3       |
20002, Materials and Processes                                         | 3       |
21021, Survey of Electricity and Electronics                           | 4       |
21046, Graphic Communications Technology I                            | 3       |
23581, Computer-Aided Engineering Graphics                             | 3       |
31000, Cultural Dynamics of Technology                                 | 3       |
31015, Construction Technology                                         | 3       |
31016, Manufacturing Technology                                        | 3       |
31087, Design for Technology                                           | 3       |
32002, Materials and Processes II                                      | 3       |

**VIII. Education Licensure Requirements**                              | 39      |
EDPF 29525, Educational Psychology                                     | 3       |
29535, Education in a Democratic Society                               | 3       |
HED 42575, Health and Learning: Strategies                             | 3       |
ITEC 19525, Educational Technology                                     | 3       |
SPED 23000, Introduction to Exceptionalities                           | 3       |
TECH 41001, Methods in Technology Education                            | 3       |
41002, Organization in Technology Education                            | 3       |
41051, Foundations 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** 126

*MATH 11011 and 11022 may be substituted for MATH 12001.

A minimum 2.50 overall GPA and a minimum 2.75 GPA in all TECH courses are required for graduation.

**Aeronautics**

The programs offered under the B.S. in aeronautics consist of four separate areas of study: aeronautical studies, aeronautical systems engineering technology, aviation management and flight technology. 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 and highly selective. Only students who have earned a 2.25 high school cumulative GPA will be considered for admission. Students must complete one semester with a 2.50 cumulative GPA prior to admission into the aeronautical systems engineer-
ing technology, aviation management or flight technology concentrations and prior to commencing flight training courses.

New students applying to the B.S. in aeronautics program who have not yet completed one semester with a 2.50 cumulative GPA are admitted directly into the aeronautical studies concentration.

Requirements for Admission for Transfer Students
Only transfer students with a GPA of 2.25 or above will be considered for admission. This GPA will 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.)

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. A minimum 2.25 GPA is required to change majors to the aeronautics program. All applications must include official transcripts showing all previously completed coursework.

Flight Course Completion
Students must complete all flight courses within one academic year after course enrollment. This requirement is subject to waiver by the director of aeronautics, chief instructor or assistant chief instructor. In the absence of an authorized waiver, students who fail to complete any flight course within one academic year after course enrollment will receive a failing grade (F) and a refund of any unused flight fees, less the usual administrative fee of $300.

Comprehensive Exit Exam
All students must successfully complete the comprehensive exit exam requirement prior to graduation with the B.S. in aeronautics. Exit exam requirements are to be satisfied by all graduation candidates no later than the eighth week of the semester of intended graduation. The exit exams shall be offered during the fourth and eighth weeks of the fall and spring semesters. Students who fail will be allowed to retake the exit exams.

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. 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 .................................. 9
    COMM 15000, Introduction to Human Communication ...... 3
    Humanities in Arts and Sciences LER ................. 3
    Fine Arts LER ........................................ 3
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 .................................. 49
    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 ....................................... 33
       TECH 15000, Introduction to Aeronautics ............. 3
       15740, Elements of Flight Theory ................. 5
       26250, Elements of Aviation Weather ............... 3
       35340, Airport Management .......................... 3
       35341, Air Transportation Systems .................. 3
       35342, Air Traffic Control .......................... 3
       45130, Physiology and Human Factors .............. 3
       45150, Applied Flight Dynamics I ................... 3
       45250, Aviation Law and Safety ..................... 3
       45291, Aero. Senior Seminar ......................... 1
       45791, Aviation Security and Policy Seminar .......... 3
VIII. Related Courses ........................................... 15
      35020, Aircraft Propulsion Systems ................... 3
      35040, Aircraft Systems I ......................... 3
      35150, Aircraft Structures .......................... 3
      45030, Aircraft Systems II ......................... 3
      45350, Avionics .................................... 3
IX. Non-Major Requirements .................................. 12
   General electives .................................. 12
   TOTAL 121
Students are advised to 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 2.00 GPA overall and a minimum 2.25 GPA in the major are required.

The courses chosen to fulfill the curriculum must satisfy the university Diversity 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 ........... 17
MATH 12001, Algebra and Trigonometry .................... 4
12002, Analytic Geom. and Calculus I ....................... 5
12003, Analytic Geom. and Calculus II ...................... 5
22005, Analytic Geom. and Calculus III .................... 3

### III. Humanities and Fine Arts .............................. 9
COMM 15000, Introduction to Human Communication ........ 3
Humanities in Arts and Sciences LER ....................... 3
Fine Arts LERs. ................................... 3

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

### V. Basic Sciences ........................................... 10
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 ...................................... 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/Pneumatics ............................... 3

#### Aeronautics Core ......................................... 33
TECH 15000, Introduction to Aeronautics .................... 3
15740, Elements of Flight Theory ........................... 5
25250, Elements of Aviation Weather ........................ 3
35340, Airport Management ................................ 3
35341, Air Transportation Systems .......................... 3
35342, Air Traffic Control ................................ 3
45130, Physiology and Human Factors ........................ 3
45150, Applied Flight Dynamics I ........................... 3
45250, Aviation Law and Safety ............................. 3
45291, Aero. Senior Seminar ................................ 1
45791, Aviation Security and Policy Seminar ................ 3

#### Related Courses ........................................... 25
TECH 35020, Aircraft Propulsion Systems .................... 3
35040, Aircraft Systems I .................................. 3
35150, Aircraft Structures .................................. 3
45030, Aircraft Systems II .................................. 3
45350, Avionics ......................................... 3
45121, Adv. Aerospace Propulsion ............................ 3
45151, Applied Flight Dynamics II ........................... 3
45700, Aircraft Design .................................... 4

**TOTAL 129**

Students are advised to 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 129 total semester hours are required.

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

The courses chosen to fulfill the curriculum must satisfy the university Diversity 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.
Students are advised to 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 127 total semester hours are required.

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

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

The courses chosen to fulfill the curriculum must satisfy the university Diversity Requirements.

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 the 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, Introduction to Human Communication .... 3
    Humanities in Arts and Sciences LER ................. 3
    Fine Arts LER ........................................ 3

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 .................................... 76
    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

Aeronaughtics Core ........................................ 33
    TECH 15000, Introduction to Aerodynamics .......... 3
    15740, Elements of Flight Theory .................... 5
    25250, Elements of Aviation Weather ................ 3
    35340, Airport Management .......................... 3
    35341, Air Transportation Systems .................. 3
    35342, Air Traffic Control .......................... 3
    45130, Physiology and Human Factors ............... 3
    45150, Applied Flight Dynamics I .................... 3
    45250, Aviation Law and Safety ...................... 3
    45291, Aero. Senior Seminar ......................... 1
    45791, Aviation Security and Policy Seminar ........ 3

Related Courses ............................................. 24
    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

VIII. Electives .................................................. 3

TOTAL 127
School of Technology

III. Humanities and Fine Arts ..................................9
   COMM 15000, Introduction to Human Communication .......3
   Humanities in Arts and Sciences LER .................3
   Fine Arts LER .............................................3

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: ..................................62
    Technology Courses ...................................7
    TECH 10001, Information Technology ................3
    21021, Survey of Electricity and Electronics .......4
    Aeronautics Core ....................................33
    TECH 15000, Introduction to Aeronautics ...........3
    15740, Elements of Flight Theory .....................5
    25250, Elements of Aviation Weather .................3
    35340, Airport Management ................................3
    35341, Air Transportation Systems .................3
    35342, Air Traffic Control ................................3
    45130, Physiology and Human Factors .................3
    45150, Applied Flight Dynamics I .....................3
    45250, Aviation Law and Safety .......................3
    45291, Aero. Senior Seminar .............................1
    45791, Aviation Security and Policy Seminar .........3

    Flight Technology Courses ............................30
    TECH 15741, Priv. Pilot Flight ..........................3
    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
    45350, Avionics (3)
    45730, Applied Transport Category Aircraft Systems (3)
    45740, Flight Management and Electronic Display Systems (3)

     Related Courses .....................................12
    TECH 35020, Aircraft Propulsion Systems .............3

VIII. Electives ...............................................1

TOTAL 128

Students are advised to 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 2.00 GPA overall and a minimum 2.25 GPA in the major are required.

The courses chosen to fulfill the curriculum must satisfy the university Diversity Requirements.

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 consists 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 systems concentration. Additionally, a “2+2” concentration is available for graduates of associate’s degree programs. These concentrations are accredited by NAIT.

Electronics Concentration

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

The courses chosen to fulfill the curriculum must satisfy university Diversity and Writing-intensive Course Requirements.

### Manufacturing Systems Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 12001</td>
<td>Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12002</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 12003</td>
<td>Analytic Geometry and Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>TECH 20001</td>
<td>Linear Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>COMM 15000</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>Humanities in Arts and Sciences LER</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts LER</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 22060</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 22061</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Social Science LER</td>
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<td></td>
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<tr>
<td>CHEM 10050</td>
<td>Fundamentals of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHY 23101</td>
<td>General College Physics I</td>
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</tr>
<tr>
<td>PHY 23102</td>
<td>General College Physics II</td>
<td>6</td>
</tr>
<tr>
<td>TECH 23581</td>
<td>Computer-Aided Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>TECH 33580</td>
<td>Engineering Graphics for Electronics</td>
<td>3</td>
</tr>
<tr>
<td>TECH 43080</td>
<td>Industrial and Environmental Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH 43081</td>
<td>Survey of Electricity and Electronics</td>
<td>4</td>
</tr>
<tr>
<td>M&amp;IS 43002</td>
<td>Advanced CAD II</td>
<td>3</td>
</tr>
<tr>
<td>M&amp;IS 43363</td>
<td>Metallurgy and Material Science</td>
<td>3</td>
</tr>
<tr>
<td>M&amp;IS 43380</td>
<td>Materials and Processes</td>
<td>3</td>
</tr>
<tr>
<td>M&amp;IS 43550</td>
<td>Computer Aided Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>M&amp;IS 43580</td>
<td>Computer-Aided Machine Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 126
School of Technology

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 ........................................... 11
    Choose 6 hours from: ................................... 6
    M&IS 34060, Operations Management (3)
    34180, Human Resource Mgmt. (3)
    44063, Quality and Cost Control (3)
    44150, Total Quality Management (3)
    Choose 5 hours from: .................................... 5
    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 121

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.

The courses chosen to fulfill the curriculum must satisfy university Diversity and Writing-Intensive Course Requirements.

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, Introduction to Human Communication ........... 3
    Humanities in Arts and Sciences LER ........................ 3
    Fine Arts LER ........................................... 3

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

V. Basic Sciences ......................................... 10
    PHY * 13001, 13002, General College Physics I, II .......... 10
    or
    PHY 12201, Technical Physics I (3)
    12202, Technical Physics II (4)
    and 3 hours from Basic Science LER courses (3)

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
    Technology electives, business courses and general electives together must include at least two of the following:
    ACCT 33063, Cost Control and Analysis for Management (3)
    BMRT 11009, Introduction to Management Technology (3)
    21005, Purchasing and Supply Management (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)
    M&IS 24163, Principles of Management (3)
    34060, Operations Management (3)
    34165, Dynamics of Leadership (3)
    34180, Human Resource Management (3)
    44150, Total Quality Management (3)
    MFGT 12010, Safety in the Workplace (2)
    SOC 42564, Bureaucratic Organizations (3)
    TECH 43080, Industrial and Environmental Safety (3)

TOTAL 129

“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 advisor.
Management Technology “2+2”

I. Composition
   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
         Choose one from ............................................... 2-4
         * 11022, Trigonometry (2)
         12001, Algebra and Trigonometry (4)
         Choose one from ............................................... 3-5
         * 11012, Intuitive Calculus (3)
         12002, Analytic Geometry and Calculus I (5)

III. Humanities and Fine Arts ........................................ 9
    COMM 15000, Introduction to Human Communication ........... 3
    Humanities in Arts and Sciences LER .......................... 3
    Fine Arts LER .................................................... 3

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 ................
    21009, Seminar in Management Technology ....................
    21011, Fundamentals of Financial Management ................
    21050, Fundamentals of Marketing Technology ................
    21052, Professional Selling Techniques ....................... 3

VIII. Technical Requirements ........................................ 15
    TECH**20002, Materials and Processes ........................
    31016, Manufacturing Technology ............................... 3
    31020, Automated Manufacturing ................................ 3
    33056, Cooperative Education—Professional Development .......
    43080, Industrial and Environmental Safety ...................
    Technology elective (upper division) ...........................

IX. Business Requirements*** ...................................... 21
    ACCT 23021, Introduction to Managerial Accounting ........
    COMT 11000, Introduction to Computer Systems ............... 3
    FIN 36053, Business Finance .....................................
    M&IS 34060, Operations Management ............................
    44063, Quality and Cost Control ................................
    MKTG 35025, Supply Chain Management ........................
    Business elective (upper division) ............................. 3
    Recommend: M&IS 34056, Intermediate Statistics

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

Electronic Technology

Prerequisite:
   MATH*12001, Algebra and Trigonometry (4)

Courses:
   TECH 20004, Electrical Circuits I .............................. 3
School of Technology

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 ................... 3
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 24

Minimum 2.0 overall GPA required for minor. Students must also have a 2.0 overall GPA to register for flight courses.

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.

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 166-187 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

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.
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 206-211 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 220-221 for program requirements.

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

Education
The following minors within the College of Education, Health and Human Services are available to all undergraduate students at Kent State University. Please see Pages 279-280 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 290-292 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 308-309 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 distinct campuses within the university. Three of them, the Ashtabula, East Liverpool and Salem campuses, are named for the cities in which 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 are members of the North Central Association. Some associate’s degree programs also have earned specific accreditation. The accounting technology, business management technology, computer technology and information technology for administrative professionals programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). 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 the Ashtabula and East Liverpool programs. East Liverpool’s occupational therapy assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE).

MISSION

The mission of the Regional Campuses is to extend access to the quality higher education programs and services of Kent State University to the residents of Northeast Ohio. 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 para-professional 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, selected bachelor’s degrees, 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, phone: 440-964-3322, fax: 440-964-4269, Web: www.ashtabula.kent.edu. The Ashtabula Campus sits on an 80-acre site that overlooks Lake Erie on Route 531. The campus includes three buildings that house classrooms, administrative offices, child-care facilities, engineering and computer science labs, athletic facilities, an auditorium, a gymnasium and a library. The grounds promote recreation and study and feature tennis courts, baseball fields, picnic areas and an outdoor performing arts stage. Fifteen associate’s degrees and all coursework for five baccalaureate degrees are available at Kent State Ashtabula.

The East Liverpool Campus

400 E. 4th St., East Liverpool, OH 43920, www.eliv.kent.edu, 330-382-7400 (phone), 330-382-7562 (fax). Kent State East Liverpool is an urban campus that overlooks the Ohio River. The campus serves students from Columbiana, Carroll, Jefferson and Mahoning counties in Ohio, and from the neighboring states of West Virginia and Pennsylvania. The East Liverpool Campus offers associate’s degrees in arts and sciences, accounting technology, business management technology, computer technology, justice studies, legal assisting technology, nursing, occupational therapy assistant and physical therapy assisting. Students interested in baccalaureate degrees can complete coursework in business management, technology, justice studies and general studies. Students can complete nearly all the coursework for the psychology and integrated health studies majors. Excellent resources, small class size and a comprehensive developmental education curriculum are in place to help every student succeed.

The Geauga Campus

14111 Claridon-Troy Road., Burton Twp., OH 44021, phone: 440-834-4187, fax: 440-834-8846, TDD: 440-834-4486, Web: www.geauga.kent.edu. Kent State Geauga is located in the heart of Geauga County, one mile north of State Routes 87 and 700. It is easily accessible from Cleveland and the eastern suburbs. The campus features a greenhouse which provides over 1900 square feet of laboratory space for the horticulture technology program. Courses leading to associate’s degrees in arts and sciences, accounting technology, business management technology, computer technology and technical studies are offered, as are baccalaureate majors in business management, general studies, nursing and technology. Selected graduate courses and courses leading to the Master of Technology are offered as well. Courses also are offered at the DaimlerChrysler Training Center in Twinsburg, Ohio (330-487-0574).
Regional Campuses

The Salem Campus
2491 SR 45 S., Salem, OH 44460, phone: 330-332-0361, fax: 330-332-9256, Web: 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, outdoor tennis courts and the student activities center. 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 six bachelor's and two master's degree programs on campus.

The Stark Campus
6000 Frank Ave. N.W., Canton, OH 44720, phone: 330-535-3377 (Akron) or 330-499-9600 (Canton), fax: 330-494-6121, Web: www.stark.kent.edu. Located on a 200-acre site just south of the Akron-Canton Regional Airport, Stark Campus, the largest of Kent State’s Regional Campuses, offers baccalaureate degrees in business management, English, history, justice studies, middle childhood education and psychology. In addition, students can complete up to three years in nearly all of Kent State University’s baccalaureate programs. Campus relationships with numerous community, cultural and business organizations bring a wide range of programs and services to the area. Along with a variety of cultural, social and student activities, the campus offers corporate and community services, management and small business development expertise, developmental education and academic support services.

The Trumbull Campus
4314 Mahoning Ave. N.W., Warren, OH 44483, phone: 330-847-0571 (Warren), fax: 330-847-6172, Web: 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 N.E., New Philadelphia, OH 44663, phone: 330-339-3391, fax: 330-339-3321, Web: www.tusc.kent.edu. The Tuscarawas Campus offers 18 associate’s degrees, as well as all of the coursework for the following six bachelor’s degrees: business management, general studies, justice studies, industrial technology, nursing and technology 2+2. In addition to the undergraduate coursework, the Tuscarawas Campus offers all the coursework for the master’s degree in technology. The campus’ newly constructed Science and Advanced Technology Center provides over 50,000 square feet of laboratory and classroom space for nursing, continuing studies and workforce development.

SCHOOL OF TECHNOLOGY
Kent State University’s School of Technology, Van Deusen Hall, Kent, OH, 330-672-2892, www.tech.kent.edu. The School of Technology offers technology-based programs that will provide students with the skills needed to compete in today’s job market. More than 25 programs are offered at the certificate, associate’s, bachelor’s and master’s degree levels throughout Kent State’s eight-campus network with a talented faculty and flexible schedules that include evening, weekend, distance learning and Web-based classes, the School of Technology has a program to match students’ 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 degree programs can be applied toward the baccalaureate completion program for a B.S. in technology or industrial technology. Baccalaureate programs in technology and industrial technology are accredited by the National Associate of Industrial Technology (www.NAIT.org).

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 advisor. In programs with special
admission requirements, admission decisions and judgments will be made by the director of the program following normal faculty consultative procedures, and will 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 the 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 advisor.
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 advisor 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 advisor of the campus they wish to attend.

Other student services at the Regional Campuses include 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 required of all students to assess learning skills. This information is used by students and advisors to determine the best course placement for academic success. 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 (2.0) or better in MATH 10004; no previous mathematics courses.
Regional Campuses

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 in developing 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 or fewer semester hours. 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 know best how to work with students to meet their individual needs. If students are requesting accommodations, it is suggested that they contact 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 place at the beginning of the semester. Contact the student disability services coordinator for more information.

THE ASSOCIATE’S DEGREE
Associate’s degrees are 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. Some baccalaureate degrees may be completed at each Regional Campus.

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. Some course selections leading 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 advisor at the earliest possible date.

**Liberal Education Requirements**

Candidates for the Associate of Arts and the Associate of Science degrees must fulfill the 36-hour Liberal Education Requirements. Regional Campus students who intend to earn a bachelor’s degree at Kent also will be expected to fulfill these requirements. (See Pages 81-83 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 advisor. 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, 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, high technology manufacturing, horticulture technology, human services technology, laboratory technology, legal assisting technology, manufacturing engineering technology, mechanical (integrated manufacturing) engineering technology, nursing, occupational therapy assistant 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 advisor 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.

**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 advisor 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. Some certificate programs articulate fully or in part, with associate degree majors.

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 through Credit-By-Exam will not count toward completion of the certificate requirements. If a student already has 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**

Associate of Arts and Associate of Science degree programs can become the foundation for baccalaureate programs.

Many credits earned in a technical associate’s degree program are also applicable to baccalaureate degrees both at Kent State and at other colleges and universities. Which credits apply depend upon the associate’s degree earned and the baccalaureate degree toward which students wish to work. Working closely with an advisor is strongly suggested as students explore options for majors and plan their schedules.
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 362 of this Catalog.

BACHELOR OF RADIOLOGIC AND IMAGING SCIENCES TECHNOLOGY
The Salem Campus provides a Bachelor of Radiologic and Imaging Sciences Technology. 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 Radiologic and Imaging Sciences Technology
- 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 also offers an Associate of Applied Science in Radiologic Technology. Upon completion, graduates of this associate’s degree must pass a national certification exam to become registered radiologic technologists. Graduates of the program then are able to pursue the Bachelor of Radiologic and Imaging Sciences Technology 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 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 sonography or nuclear medicine. Students must meet with an advisor in the radiologic and imaging sciences technology program at the Salem Campus.

Graduation Requirements
To receive a Bachelor of Radiologic and Imaging Sciences Technology, a student must satisfy the 36-hour Liberal Education Requirements as indicated in this Catalog, the Diversity Requirements, and 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 technology core courses. Students must complete all academic and clinical competencies in their core concentration.

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

Radiologic and Imaging Sciences Technology
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.

I. Composition ............................................. 6
   ENG 10001, College English I ................................ 3
   10002, College English II ................................ 3

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
Regional Campuses

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 Orientation ........................ 1
VII. Technology Requirements from A.A.S. in RADT for 2+2 Options 53

VIII. Major Requirements (choose one concentration)

Computed Tomography Concentration (2+2)

IHS 44091, Professional Seminar in Integrated Health Studies ......................... 3
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

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 .......................... 3
34055, Ultrasound Clinical Education II .................... 3
34062, Obstetric-Gynecologic Sonography I ................ 3
34065, Ultrasound Clinical Education III .................. 2
34082, Small Parts Sonography ............................ 1
34083, Sectional Anatomy 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
44098, Research in Medical Imaging ...................... 3

Electives for freshman entry B.S. and A.S. ................... 34

Related courses for freshman entry and A.S.:

COMT 11000, Introduction to Computer Systems .............. 3
HED 14020, Medical Terminology .......................... 3

RADT 14002, Introduction to Patient Care .................... 3

Total hours for freshman entry B.R.I.T., A.S. and A.T.S. for B.R.I.T. TOTAL 123

Total hours for A.A.S. in RADT +2 B.R.I.T. TOTAL 131

Magnetic Resonance Imaging Concentration (2+2)

IHS 44091, Professional Seminar in Integrated Health Studies ......................... 3
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

Upper-division electives ..................................... 15

TOTAL 129

Nuclear Medicine Technology Concentration

IHS 44091, Professional Seminar in Integrated Health Studies ......................... 3
RIS 44001, Nuclear Medicine Clinical Education I ............. 2
44005, Nuclear Medicine Clinical Education II ............. 2
44006, Nuclear Medicine Physics and Instrumentation I ........ 4
44010, Nuclear Medicine Clinical Education III ............ 2
44011, Nuclear Medicine Radiopharmacy ..................... 3
44012, Nuclear Medicine Procedures II ...................... 3
44014, Nuclear Medicine Physics and 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 freshman entry B.S. and A.S. ................... 34

Related courses for freshman entry and A.S.:

COMT 11000, Introduction to Computer Systems .............. 3
HED 14020, Medical Terminology .......................... 3

Total hours for freshman entry B.S., A.S. and A.T.S. for B.R.I.T. TOTAL 121

Total hours for A.A.S. in RADT +2 B.R.I.T. TOTAL 129

2005-2006 Kent State University Undergraduate Catalog
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 advisor 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 (2.0) 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’ advisors 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: obtain advising from a faculty member in each degree program; complete a Program Requirement Sheet for each program; and receive approval from the Office of the Executive Dean 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, DANTES, 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 also is presented in another section of this Catalog. Briefly, however, associate’s degree students may 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 (2.0) 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. Up to 6 semester hours of correspondence coursework from an accredited institution will be accepted toward an associate’s degree; however, each course must carry a grade of at least C and be applicable to the student’s 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 academic year in which all requirements are successfully completed.

Application for Graduation
Graduation applications, information and deadline dates may be obtained from the Student Services office at each Regional Campus. Completed application forms are to be returned by the deadline to that office. If students do not complete 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 Rule for Recalculation of First-Year 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

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 Assistant 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
Emergency Medical Services Technology
Industrial Trades Technology

KENT CAMPUS
Although the degree is conferred at a Regional Campus offering the program, coursework for the following degrees is available at the Kent Campus through the School of Technology.
Associate of Applied Business
Accounting Technology
Business Management Technology
Associate of Applied Science
Computer Design and Animation Engineering Technology
Manufacturing Engineering Technology

SALEM CAMPUS
Associate of Arts
Associate of Science
Associate of Applied Business
Accounting Technology (most coursework)
Business Management Technology
Computer Technology
Regional Campuses

Information Technology for Administrative Professionals

Associate of Applied Science
- Early Childhood Education 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
- Radiation Therapy Technology
- Radiologic 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
- Business Management Technology
- Computer Technology
- Information Technology for Administrative Professionals

Associate of Applied Science
- Computer Design and Animation Engineering Technology
- Electrical/Electronic Engineering Technology
- Engineering of Information Technology
- Mechanical Engineering Technology
  (Integrated Manufacturing)
- Nursing
- Plastics Manufacturing Engineering 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: they may serve as freshman- and sophomore-year programs for students who are planning to complete a bachelor’s degree program; they may serve as degrees unto themselves for students who want to obtain a general education by sampling a variety of different subject areas; they may advance students’ careers or provide job retraining; and 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 advisors in the selection of their courses prior to the beginning of each semester.

The following will meet the minimum requirements for each degree:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics, Logic and Foreign Languages</td>
<td>6</td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td>9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Basic Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>24</td>
</tr>
<tr>
<td>University Orientation (US 10001)</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>61</strong></td>
</tr>
</tbody>
</table>

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 81-83 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

Accounting technology provides students with a broad range of practical accounting and communication skills, teamwork experience and the liberal arts. These combined skills prepare students for immediate entry into the accounting technology field in numerous environments including manufacturing, retail, service and governmental organizations. Requirements articulate with the Accounting Technology certificate; contact an advisor for more information. This major is accredited by the Association of Collegiate Business Schools and Programs (ACBSP), 7007 College Blvd., Suite 420, Overland Park, KS 66211, 913-339-9356, www.acbsp.org. The degree is available at the Ashtabula, East Liverpool, Trumbull and Tuscarawas campuses. Most of the courses for this major are available at the Geauga and Salem campuses.

I. TECHNICAL COURSES ................................................. 29-30

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTT 11000</td>
<td>Accounting I—Financial</td>
<td>4</td>
</tr>
<tr>
<td>11001, Accounting II—Managerial</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>20012, Accounting Software Applications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21000, Accounting III—Financial</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>21003, Fundamentals of Tax Preparation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21063, Introduction to Cost Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMRT 11000, Introduction to Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Technical electives**</td>
<td>5-6</td>
<td></td>
</tr>
</tbody>
</table>

II. RELATED COURSES .................................................. 15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMRT 21000, Business Law and Ethics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMT 11000, Introduction to Computer Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 22060, Principles of Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>22061, Principles of Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choose one from:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 20002, Introduction to Technical Writing (3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ITAP 26638, Business Communications (3)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

III. GENERAL STUDIES COURSES ................................. 17

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 15000, Introduction to Human Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 10001, College English I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>10002, College English II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 11011, College Algebra</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>US 10001, University Orientation</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>General studies electives***</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Choose from the LERs list in this Catalog, in consultation with an academic advisor.

**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 advisor select from: ACTT, BMRT, COMT or ITAP.

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

### Associate of Applied Business

#### Business Management Technology

Business management technology provides students with a core consisting of written and oral communication skills, management skills, accounting, marketing, e-commerce, economics and liberal arts courses. In addition, the program offers technical options that allow students to specialize in marketing/sales, entrepreneurship/small business, manufacturing management and general business management. In some cases, students may have the opportunity to participate in internships, which help to link theory with hands-on practice. Requirements articulate fully or in part with the Business Management, Entrepreneurship and Manufacturing Management certificates; contact an advisor for more information. This major is accredited by the Association of Collegiate Business Schools and Programs (ACBSP), 7007 College Blvd., Suite 420, Overland Park, KS 66211, 913-339-9356, www.acbsp.org. The degree is available at the Ashtabula, East Liverpool, Salem, Trumbull and Tuscarawas campuses. Most of the courses in this major are available at the Geauga Campus and the Kent Campus through the School of Technology.

I. TECHNICAL COURSES ............................................. 35-39

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTT 11000, Accounting I—Financial</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>11009, Introduction to Management Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21006, Human Resources Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21008, Case Studies in Management Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21009, Seminar in Management Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21011, Fundamentals of Financial Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21050, Fundamentals of Marketing Technology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>21052, Professional Selling Techniques</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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Select one concentration in consultation with advisor: . . . 7-9

Computer Applications
COMT 11006, Introduction to Web Site Technology ............... 3
12000, Introduction to Computers II ............................ 3
21010, Workgroup Productivity Software ........................ 3

General Business Management/Entrepreneurship/
Manufacturing (7-9)
Before enrolling or applying credit, obtain approval of full-time
business management faculty.

Information Technology
ITAP 16620, Word Processing I ................................. 3
16625, Business Presentations .................................. 2
16639, Database Applications ................................. 3
26611, Spreadsheet Applications .............................. 3

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 Management Tech. (1-3)

II. RELATED COURSES ............................................ 12
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 (3)

Business Communications Module:
Select one from: .................................................... 3
ENG 20002, Introduction to Technical Writing (3)
30063, Business and Professional Writing (3)
ITAP 26638, Business Communications (3)

III. GENERAL STUDIES COURSES ............................... 16-17
COMM 15000, Introduction to Human Communication ........ 3
ENG 10001, College English I .................................... 3
10002, College English II ..................................... 3
US 10001, University Orientation ................................ 1
Select 3 credit hours from the LERs ......................... 3

Computation/Mathematics Module:
Select one from: .................................................... 3-4
BMRT*11006, Business Computations (3)
MATH 11011, College Algebra (4)
*Course not applicable to the B.B.A.

TOTAL 63-66

Associate of Applied Business

Computer Technology

Computer technology provides students with a core consisting of
programming, operating systems and networks, Web site develop-
ment and work group productivity technologies. Students may
choose from concentrations in specific areas including network-
ing, applications development and Internet/multimedia technolo-
gies. These concentrations allow students to focus their studies
and begin to prepare for various professional certifications. There
is also a general concentration that prepares students for posi-
tions in small- and medium-size organizations that require com-
puter staff to perform a wide variety of technical duties. In
addition, the concentrations may articulate fully or in part with
available certificates in microcomputer applications, database
administrator and advanced Internet; please contact an advisor
for more information. This major is accredited by the Association
of Collegiate Business Schools and Programs (ACBSP), 7007
College Blvd., Suite 420, Overland Park, KS 66211, 913-339-9356, www.acbsp.org. The degree is available at the Ashtabula,
East Liverpool, Gnauga, Salem, Trumbull and Tuscarawas cam-
puses with courses available at the Kent Campus through the
School of Technology.

I. TECHNICAL CORE COURSES .................................. 23
COMT 11002, Visual Basic Programming ...................... 3
11005, Introduction to Operating Systems and
Networking Technology ........................................ 3
11006, Introduction to Web Site Technology .................. 3
11009, Computer Assembly and Configuration .......... 4
21002, Network Setup and Configuration ........................ 4
21009, Seminar in Computer Technology .................... 3
21010, Workgroup Productivity Software ..................... 3

II. TECHNICAL CONCENTRATIONS: ............................ 9-10
Select one concentration in consultation with advisor.
Application Development Technology Concentration:
COMT 21005, Visual Basic Database Programming .......... 4
Choose two from: ..................................................... 6
COMT 20001, C++ Programming (3)
29011, JAVA Programming (3)
TECH 21036, Web Scripting (3)

Internet/Multimedia Technology Concentration:
COMT 21011, Techniques of Multimedia Web Design ........ 3
Computer-related elective (COMT faculty approval required) . . 3
Choose one from ...................................................... 3
COMT 21007, Internet Ethics and Policies (3)
21036, Web Scripting I (3)
Network Technology Concentration:
COMT 21100, Local Area Network Troubleshooting . . . . . . . . . .3
21110 Internetworking . . . . . . . . . . . . . . . . . . . . . . . . . .3
Computer-related elective (COMT faculty approval required) . . . .3

General Technology Concentration:
Computer-related electives (COMT faculty approval required) . . .9

III. RELATED COURSES . . . . . . . . . . . . . . . . . . . . . . . . . . . . .13-14
COMT 12000, Introduction to Computer Systems II . . . . . . . . . .3
MATH 11011, College Algebra . . . . . . . . . . . . . . . . . . . . . . . . . .4
Choose one from Section A and one from Section B . . . . . .6-7

Section A:
BMRT 11000, Introduction to Business (3)
COMT 11004, Survey of Information Technology (3)
ECON 22060, Principles of Microeconomics (3)
22061, Principles of Macroeconomics (3)

Section B:
ACTT 11000, Accounting I - Financial (4)
11001, Accounting II - Managerial (4)
COMT*11000, Introduction to Computer Systems (3)
MATH 11012, Intuitive Calculus (3)

IV. GENERAL STUDIES COURSES . . . . . . . . . . . . . . . . . . . . . . . .16
COMM 15000, Introduction to Human Communication . . . . . . .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

Computer design and animation engineering technology provides students with coursework in design, animation and virtual reality. Computer-aided design (CAD) is used throughout the program for computer modeling and multimedia development. This program prepares students for entry-level positions as drafter/designer technicians in engineering and manufacturing industries, as well as in the field of multimedia development. This major articulates with the Computer-Aided Drafting certificate and the technology 2+2 baccalaureate degree; please contact an advisor for more information. This program is available at the Tuscarawas Campus, with courses available at the School of Technology at the Kent Campus.

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 . . . . . . . . . . . . . . . . . . . .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 . . . . . . . . . . . . . . . . . . . . . . . . . . . .2
11022, Trigonometry . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .2
Choose one from: . . . . . . . . . . . . . . . . . . . . . . . . . . . .2
COMT 21092, Computer Practicum (2)
IERT 22095, ST: Productivity Software (2)

IV. GENERAL STUDIES COURSES . . . . . . . . . . . . . . . . . . . . . . . .14
COMM 15000, Introduction to Human Communication . . . . . . .3
ENG 10001, College English I . . . . . . . . . . . . . . . . . . . . . . . . . .3
US 10001, University Orientation . . . . . . . . . . . . . . . . . . . . . .1
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 MSCI 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.
Regional Campuses

Associate of Applied Science

Early Childhood Education Technology

The early childhood education technology (ECET) degree is offered at the Ashtabula, Salem and Tuscarawas campuses. A minimum of 2.00 GPA (C grade) is required in each technical course and a minimum 2.00 cumulative GPA is required for graduation. Students who successfully complete this program are eligible to apply for Ohio's Associate Degree Preschool license.

The coursework for this associate's degree also is fully applicable to the baccalaureate degree in early childhood education at either the Kent or Salem campuses, although completion of the associate's degree does not guarantee admission to the baccalaureate program. Students who wish to be admitted to the baccalaureate degree program at the Kent Campus need to check the Early Childhood Education section under the College of Education, Health and Human Services for admission requirements and other information about this selective admission program.

The baccalaureate program at Kent State Salem is also selective, following standards established at the Kent Campus. To be considered for admission, students must meet all professional requirements for admission to advanced study in early childhood including a grade of B (3.0) or higher in both ECED 10120 and ECED 20163, a minimum cumulative GPA of a 3.00 in all previous Kent State undergraduate coursework and completion of the ECET associate's degree. The most qualified applicants will be accepted based upon the number of available student spaces and consideration of the student's standardized test scores, cumulative GPA, written essay and interview.

For information about the Kent State Salem baccalaureate program, students should contact the Kent State Salem program director for early childhood education the semester before beginning the associate degree student teaching experience. Because there are limited spaces available, meeting the minimum criteria listed above does not guarantee admission to the program. Students who successfully complete the baccalaureate curriculum are eligible to apply for an Ohio license, valid for teaching children in preschool through grade three.

I. TECHNICAL COURSES ........................................... 38
ECET 10120, Introduction to Early Childhood ............... 2
       20163, Understanding Young Children: Typical and Atypical ............. 3

ECET 21005, Partnerships in Child Guidance ............. 3
       21010, Infant/Toddler Curriculum and Services ............. 3
       22000, Preschool Curriculum .................. 3
       22130, Emerging Literacy ................... 3
       22140, Student Teaching Seminar .......... 3
       22150, Student Teaching ................... 6
EDPF 29525, Educational Psychology ............. 3
       29535, Education in a Democratic Society ............. 3
ITEC 19525, Educational Technology ............. 3
SPED 23000, Introduction to Exceptionalities ............. 3

II. RELATED COURSES ................................... 14
MATH 14001, Basic Math Concepts I ................... 4
       14002, Basic Math Concepts II ............. 4
PSYC 11762, General Psychology ............. 3
Choose one course: ........................................... 3
SOSC 12050, Introduction to Sociology (3) .... 3
       22778, Social Problems (3) ............. 3

III. GENERAL STUDIES COURSES ............................ 16
COMM 15000, Introduction to Human Communication ............. 3
ENG 10001, College English I ................... 3
       10002, College English II ............. 3
US 10001, University Orientation ............. 1
Basic Science elective (select from LER list) ............. 3
Humanities and Fine Arts elective (select from LER list) ............. 3

TOTAL 68

Associate of Applied Science

Electrical/Electronic Engineering Technology

Electrical/electronic engineering technology provides students with a core of engineering-related courses and a focus on digital and electronic systems, robotics, microsystems and the design/development of electrical and electronic circuits. Computer and general options are available which allow students to further specialize; adjustments to option course requirements may be made by a faculty advisor based upon student need and course availability. Requirements articulate with the technology 2+2 baccalaureate degree. This major is available at the Ashtabula, Trumbull and Tuscarawas campuses.

I. TECHNICAL COURSES ................................... 37-38
EERT 12000, 12001, Electric Circuits I, II ............. 7
       12010, Introduction to Electronics ............. 3
       22004, Digital Systems ............. 3
       22011, Electronic Systems ............. 3
       22014, Microprocessors and Robotics ............. 4
Environmental Technology

Environmental technology provides students with a working knowledge of the source, nature and scope of conditions that are or could be hazardous to the environment. Topics include toxic waste, occupational safety, pollution and industrial hygiene. In addition to the environmental core, students complete selected basic science and appropriate liberal education courses. Students interested in continuing their studies at the baccalaureate level should consult with an advisor. This major is available at the Trumbull Campus.

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

II. RELATED COURSES ...........................................19
EERT 22000, Electric Circuits I ..................................4
22001, Electric Circuits II .........................................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 ..................................3
IERT 12005, Applications in CAD ...............................2
MERT 12000, Engineering Drawing ..................................2
TECH 33223, Electronic Communication ........................3

III. GENERAL STUDIES COURSES .................................14
COMM 15000, Introduction to Human Communication ..........3
ENG 10001, College English I ....................................3
20002, Introduction to Technical Writing ........................3
US 10001, University Orientation ................................1
General Studies elective ............................................3

TOTAL 72

TOTAL 72
Regional Campuses

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 in consultation with an advisor.

ENV 2006, 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, Biologicalfoundations .... 4
CHEM 10053, Inorganic and Organic Lab .... 1
10054, General and Elementary Organic Chemistry .... 5
GEOG 21062, Environmental Geology .... 3

III. GENERAL STUDIES COURSES ......... 18
COMM 15000, Introduction to Human Communication .... 3
ENG 10001, College English I .... 3
10002, Introduction to Technical Writing .... 3
10054, General and Elementary Organic Chemistry .... 5
20001, Environmental Law ......... 3
20005, Electrical/Electronic Drawing .... 2
12001, Electric Circuits II .... 3
12002, College English II .... 3
12004, Digital Systems .... 3
12006, Physical Geography .... 3
12009, General and Elementary Organic Chemistry .... 5
21092, Environmental Technology Internship II .... 3

Associate of Applied Science

High Technology Manufacturing

High technology manufacturing provides students with a solid foundation in mathematics, chemistry and electronics, and then introduces 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 integrated circuits on the wafers and finally testing the integrated circuit to determine if it performs to the specifications set for the product. Students will learn the application and use of lasers, lightwave communications and optoelectronic devices. This major is available at the Trumbull Campus.

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
Select 6 hours each from photonics and semiconductor concentrations with the approval of EERT faculty advisor.

Photronics
HTMT 13601, Introduction 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 and 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, Introduction to Human Communication .... 3
ENG 10001, College English I .... 3
20001, University Orientation .... 1
LER .... 3

TOTAL 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 advisor’s approval is required.
Horticulture technology prepares students for careers in landscape management, turf management, tree care, nursery and greenhouse operations and related horticultural professions. In addition to a core of horticulture and basic science courses, the major provides three areas of concentration: arboriculture, landscape design and management and turfgrass management. The program emphasizes practical experience through hands-on training in outdoor labs and site visits to employers. Students complete two paid summer internships in their areas of concentration. This program is available at the Geauga and Salem campuses.

I. TECHNICAL COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 16001, Horticultural Botany</td>
<td>3</td>
</tr>
<tr>
<td>26002, Ecological Principles of Pest Management</td>
<td>3</td>
</tr>
<tr>
<td>26003, Plant Identification and Selection I</td>
<td>3</td>
</tr>
<tr>
<td>26004, Plant Identification and Selection II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 16001, Horticultural Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 16001, Soil and Horticultural Management</td>
<td>3</td>
</tr>
<tr>
<td>HORT 16001, Introduction to Horticulture</td>
<td>1</td>
</tr>
<tr>
<td>26001, Occupational Regulations and Safety</td>
<td>2</td>
</tr>
<tr>
<td>Technical elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two concentrations from the following areas . . . . 12

Concentration A:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 26020, Landscape Management</td>
<td>3</td>
</tr>
<tr>
<td>26021, Cooperative Work Experience in Landscape Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration B:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 26030, Turfgrass Management</td>
<td>3</td>
</tr>
<tr>
<td>26031, Cooperative Work Experience in Turfgrass Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration C:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMRT 11000, Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>11006, Business Computations I</td>
<td>3</td>
</tr>
<tr>
<td>21052, Professional Selling Techniques</td>
<td>3</td>
</tr>
<tr>
<td>COMT 11000, Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 21062, Environmental Geology</td>
<td>3</td>
</tr>
</tbody>
</table>

II. RELATED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 15000, Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 10001, College English I</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 66

Associate of Applied Science

Human Services Technology

Human services technology is designed to prepare graduates for entry-level positions in a variety of human services agencies. The program includes applied courses in human services and joint university-agency supervised internships. The core courses provide a solid foundation in case management and client advocacy. Graduates meet the educational requirements for Social Worker Assistant Registration. The coursework in the associate’s degree is fully applicable to the Bachelor of Science in Human Development and Family Studies. The program is offered at the Ashtabula, East Liverpool and Salem campuses.

I. TECHNICAL COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERO 44030, Adult Development and Aging</td>
<td>3</td>
</tr>
<tr>
<td>HDFS 24011, The Family</td>
<td>3</td>
</tr>
<tr>
<td>24012, Child Development</td>
<td>3</td>
</tr>
<tr>
<td>HST 11000, Introduction to Human Services</td>
<td>1</td>
</tr>
<tr>
<td>11001, Group Process in Human Services</td>
<td>2</td>
</tr>
<tr>
<td>11002, Survey of Community Resources</td>
<td>3</td>
</tr>
<tr>
<td>21000, Dynamics of Helping Relationship</td>
<td>3</td>
</tr>
<tr>
<td>21001, Assessment of Client Needs</td>
<td>3</td>
</tr>
<tr>
<td>21002, Client Advocacy and Case Management</td>
<td>3</td>
</tr>
<tr>
<td>21092, Internship I</td>
<td>3</td>
</tr>
<tr>
<td>21192, Internship II</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Choose from: COMT 11000, HED 32530, 32544, ITAP 16680, SOC 32400, 32570.

II. RELATED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10001, Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 11762, General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>21211, Psychology of Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>SOC 12050, Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>32762, Deviant Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

III. GENERAL STUDIES COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 15000, Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 10001, College English I</td>
<td>3</td>
</tr>
<tr>
<td>10002, College English II</td>
<td>3</td>
</tr>
<tr>
<td>US 10001, University Orientation</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>
Information Technology for Administrative Professionals

Information technology for administrative professionals provides students with the opportunity to learn current business developments that shape administrative functions. Students use the most current versions of business software applications including word processing, spreadsheets, desktop publishing and visual presentations. In addition, students learn the fundamentals of accounting, automated records management, business communications and resource management. Requirements articulate fully with the Desktop Publishing certificate; contact an advisor for more information. This major is accredited by the Association of Collegiate Business Schools and Programs (ACBSP), 7007 College Blvd., Suite 420, Overland Park, KS 66211, 913-339-9356, www.acbsp.org. The degree is available at the Ashtabula, Salem, Trumbull and Tuscarawas campuses.

I. TECHNICAL COURSES ......................................................... 29
   ITAP 16620, Word Processing I .................................................. 3
   16621, Word Processing II .................................................... 3
   16625, Business Presentations ................................................. 2
   16636, Data Management for Admin. Professionals ............. 3
   16639, Database Applications ............................................... 3
   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
   COMT 11005, Introduction to Operating Systems and
   Networking Technology ................................................... 3

   Related Electives ............................................................... 6
   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)
   21007, Internet Ethics and Policies (3)
   21011, Techniques of Multimedia Web Design (3)

III. GENERAL STUDIES COURSES ............................................ 16
   COMM 15000, Introduction to Human Communication ........... 3
   ENG 10001, College English I ............................................. 3
   ITAP 26638, Business Communications ............................ 3
   US 10001, University Orientation ...................................... 1

   General studies electives: .................................................. 6
   Select from LERs list in this Catalog.

   TOTAL 67

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

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

Integrated Business Education Baccalaureate Degree

Students interested in a four-year degree in integrated business education should follow the program outlined under Career Technical Teacher Education in the College of Education, Health and Human Services section of this Catalog.

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, Introduction 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, College English I ............................................. 3
   10002, College English II .................................................. 3
   Humanities and Fine Arts .................................................... 9
   from the LERs
   Social Sciences ............................................................... 9
   from the LERs
   Basic Sciences ............................................................... 9
   at least 6 hours from the LERs.
**Laboratory Technology**

Laboratory technology provides students with a range of technical knowledge and skills in the areas of laboratory safety, quality control/assurance, testing, instrumentation and hazardous waste operations. It is designed to prepare graduates for employment in commercial, industrial and environmental testing laboratories. Options are available in environmental laboratory and industrial laboratory. This major is available at the Trumbull Campus.

### I. TECHNICAL COURSES ...............22-23

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT 10004</td>
<td>Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>20020</td>
<td>Hazardous Waste Operations &amp;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Emergency Response</td>
<td></td>
</tr>
<tr>
<td>LABT 11001</td>
<td>Laboratory Safety</td>
<td>3</td>
</tr>
<tr>
<td>11002</td>
<td>Laboratory Quality Control and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Quality Assurance</td>
<td></td>
</tr>
<tr>
<td>11004</td>
<td>Applied Laboratory Technology</td>
<td>3</td>
</tr>
<tr>
<td>21001</td>
<td>Introduction to Industrial Chemical</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Processes</td>
<td></td>
</tr>
<tr>
<td>21092</td>
<td>Internship in Laboratory Technology</td>
<td>1-2</td>
</tr>
<tr>
<td>21095</td>
<td>Special Topics in Laboratory Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one option: ..................9-10

#### Environmental Laboratory Option

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ENVT 10001</td>
<td>Introduction to Environmental Technology</td>
<td>3</td>
</tr>
<tr>
<td>20001</td>
<td>Environmental Law</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Laboratory Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MERT 12005</td>
<td>Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>22006</td>
<td>General Mechanical Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PLCT 12000</td>
<td>Introduction to Plastics</td>
<td>4</td>
</tr>
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</table>

### II. RELATED COURSES .......................16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 20111</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>20112</td>
<td>Elementary Quantitative Lab</td>
<td>2</td>
</tr>
<tr>
<td>COMT 11000</td>
<td>Introduction to Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 19001</td>
<td>Technical Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 12201</td>
<td>Technical Physics I</td>
<td>3</td>
</tr>
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</table>

### III. GENERAL STUDIES COURSES .............16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 10050</td>
<td>Fundamentals of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>10052</td>
<td>Introduction to Organic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>10053</td>
<td>Inorganic and Organic Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total**: 61-62

---

**Legal Assisting Technology**

Legal assisting technology prepares students to work as legal assistants (paralegals) under the supervision of an attorney in all areas of law and law-related practice. The program consists of legal assisting, law-related and general studies courses. This major is available at the East Liverpool and Trumbull campuses.

### I. TECHNICAL COURSES .......................24

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGT 18000</td>
<td>Introduction to Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>18001</td>
<td>Legal Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>18003</td>
<td>Family Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>21092</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td>28004</td>
<td>Principles and Practice of Litigation</td>
<td>3</td>
</tr>
<tr>
<td>28005</td>
<td>Civil Litigation</td>
<td>3</td>
</tr>
<tr>
<td>28006</td>
<td>Advanced Legal Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>28007</td>
<td>Estate and Probate Administration</td>
<td>3</td>
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<tr>
<td>28008</td>
<td>Professional Development for Paralegals</td>
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Choose 12 hours from:

<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACTT 21003</td>
<td>Fundamentals of Tax Preparation</td>
<td>3</td>
</tr>
<tr>
<td>BMRT 11009</td>
<td>Intro. to Management Technology</td>
<td>3</td>
</tr>
<tr>
<td>21000</td>
<td>Business Law and Ethics I</td>
<td>3</td>
</tr>
<tr>
<td>21002</td>
<td>Business Law and Ethics II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 20002</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>JUS 12000</td>
<td>Introduction to Justice Studies</td>
<td>3</td>
</tr>
<tr>
<td>22100</td>
<td>Basic Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>22301</td>
<td>The Investigative Process</td>
<td>3</td>
</tr>
<tr>
<td>LEGT 18002</td>
<td>Corporate Law</td>
<td>3</td>
</tr>
<tr>
<td>18004</td>
<td>Tort Claims for Paralegals</td>
<td>3</td>
</tr>
<tr>
<td>18005</td>
<td>Employment Regulations</td>
<td>3</td>
</tr>
<tr>
<td>RERT 11000</td>
<td>Real Estate Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>11001</td>
<td>Real Estate Law</td>
<td>3</td>
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</table>

### III. RELATED COURSES .......................13

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACTT 11000</td>
<td>Accounting I - Financial</td>
<td>4</td>
</tr>
<tr>
<td>BMRT 11000</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>* 11006</td>
<td>Business Computations</td>
<td>3</td>
</tr>
<tr>
<td>COMT 11000</td>
<td>Introduction to Computer Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**: 63-65
Regional Campuses

IV. GENERAL STUDIES COURSES ......................................................19

COMM 15000, Introduction to Human Communication ..................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, Introduction 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

Manufacturing engineering technology provides students with knowledge and skills in the areas of computer-aided design (CAD), computer-aided manufacturing (CAM), computer numerical controlled machining (CNC), industrial controls and programmable logic controllers (PLCs). Options are available in automated machining and industrial automation. Requirements articulate with the technology 2+2 baccalaureate degree. This major is available at the Kent Campus with courses available at the Salem Campus through the School of Technology.

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

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, Introduction to Human Communication ..................3
ENG 10001, College English I ......................................................3
20002, Introduction to Technical Writing ...................................3
MATH 12001, Algebra and Trigonometry .......................................4
US 10001, University Orientation ...............................................1

TOTAL 66

Associate of Applied Science

Mechanical Engineering Technology

*(Integrated Manufacturing)*

Mechanical engineering (integrated manufacturing) technology provides students with knowledge and skills in the manufacturing areas related to computer-controlled equipment and integrated manufacturing. Topics include drafting, CAD/CAM, materials testing and robotics applications. There are four concentrations available: general, polymer, radiation polymer and systems. This major is available at the Ashtabula, Trumbull and Tuscarawas campuses. The general concentration is available at the Ashtabula, Trumbull and Tuscarawas campuses. The systems concentration is individualized and developed with the guidance of a faculty advisor; it is available only at the Ashtabula Campus. The polymer and radiation polymer concentrations are available at the Ashtabula and Trumbull campuses. In addition, the concentrations may articulate fully or in part with available certificates in computer-aided drafting, plastics manufacturing and radiation polymers and the technology 2+2 baccalaureate degree; please contact an advisor for more information.
I. TECHNICAL COURSES ........................................... 36-39

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 Concentration ...................................... 16-19

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 12001, Introduction 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 and Trumbull campuses.

- IERT 22000, Statistical Process Control ...................... 4
- PLCT 12000, Introduction to Plastics ......................... 4
- 12005, Radiation Polymer Technology I ..................... 3
- 22006, Radiation Polymer Technology II ..................... 3

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 advisor.

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, Introduction to Human Communication ........ 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.

Regional Campuses

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 and are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

The Associate Degree in Nursing program is accredited by the National League for Nursing, Accrediting Commission, 81 Broadway, 33rd Floor, New York, NY 10006, 212-363-5555, ext. 153, www.nln.org.

I. NURSING COURSES* ........................................... 38

- NRST 10001, Foundations of Nursing Agency .............. 5
- 10002, Introduction to Nursing Processes .................. 1
- 10003, Nursing Agency I ...................................... 6
- 10004, Older Adult Developmental Self-Care .............. 2
- 10005, Therapeutic Use of Self .............................. 2
- 20006, Nursing Agency II .................................... 5
- 20007, Psychosocial Self-Care Deficits ................... 3
- 20008, Nursing Agency III .................................... 6
- 20009, Maternal/Newborn Development Self-Care .......... 2
- 20010, Child and Family Development Self-Care .......... 2
- 202011, Contemporary Nursing Issues ...................... 1

- NURS 20950, Human Growth and Development ......... 3

for Health Professionals ........................................ 3

II. RELATED COURSES ........................................... 16

- BSCI 20020, Biological Structure and Function **........ 5
- 20021, Basic Microbiology ** ............................... 3

2005-2006 Kent State University Undergraduate Catalog
Choose either ........................................... 5
CHEM 10054, General and Elementary Organic Chemistry (5)**
or
10050, General Chemistry (3)**
10052, Organic Chemistry (2)**
NUTR 33512, Nutrition**  .................................. 3

III. GENERAL STUDIES COURSES  ................................16
ENG 10001, College English I .................................... 3
10002, College English II ......................................... 3
PSYC 11762, General Psychology  ................................ 3
SOCI 12050, Introduction to Sociology  .......................... 3
US 10001, University Orientation  ................................. 1
Elective*** ......................................................... 3

TOTAL 70

*A grade of C (2.0) 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 (2.0) 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.

<table>
<thead>
<tr>
<th>Associate of Applied Science</th>
</tr>
</thead>
</table>

**Occupational Therapy Assistant Technology**

The Associate of Applied Science in Occupational Therapy Assistant Technology is offered at the East Liverpool Campus. This program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE), 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, 301-652-AOTA(2682), www.aota.org. With the successful completion of the program, graduates are awarded the Associate of Applied Science in Occupational Therapy Assistant Technology, 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 OTAT major requires the following: admission to the university; completion of the COMPASS test and, if necessary, recommended coursework; a minimum of 40 hours of volunteer time in an occupational therapy setting; high school or college courses in algebra and general biology; and a 2.5 GPA. Application deadline is Jan. 15. Students interested in the program should apply directly to the East Liverpool Campus and meet with the program director. Applicants not admitted directly to the OTAT program will be admitted as premajor students. Detailed information and requirements for admission may be obtained from the Kent State East Liverpool Campus program office.

I. TECHNICAL COURSES  ............................................. 35
OTAT 10000, Introduction 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
Disabilities ......................................................... 3
20005, Clinical Applications .................................... 8

Note: Clinical education must be successfully completed within 18 months of the didactic coursework.

II. RELATED COURSES  ............................................... 16
BSCI 11001, Anatomy for Physical and Occupational Therapy  3
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 in Physical
Therapy .......................................................... 1

III. GENERAL STUDIES COURSES  .................................. 16
ENG 10001, College English I .................................... 3
10002, College English II ......................................... 3
PSYC 11762, General Psychology  ................................ 3
SOCI 12050, Introduction to Sociology  .......................... 3
US 10001, University Orientation  ................................. 1
Elective* .......................................................... 3

TOTAL 67

*Course to have communication or management focus.
The Associate of Applied Science in Physical Therapy Assisting program is offered at the Ashtabula and East Liverpool campuses. The program is accredited by the Commission on Accreditation in Physical Therapy Education, 1111 N. Fairfax St., Alexandria, VA 22314, 703-706-3245, www.apta.org. 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 or Ashtabula Campuses and meet with the campus program director. Applicants not admitted directly to the PTAT program may be admitted as premajor students. 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, Introduction to Physical Therapist Assisting .... 2
    10001, Principles of Patient Care in Physical Therapy ....... 4
    10003, Clinical Conditions I ....................................... 2
    10004, Physical Therapy Procedures I ......................... 4
    10005, Directed Practice in PT I ................................. 2
    20003, Clinical Conditions II ..................................... 2
    20004, Physical Therapy Procedures II ........................... 4
    20005, Directed Practice in PT II ................................ 5
    20006, Physical Rehabilitation Procedures ..................... 4
    20007, Directed Practice in Physical Therapy III .............. 6
    20008, Clinical Conditions III ................................... 2

II. RELATED COURSES ...................................................... 17
    BSCI 11001, Anatomy for Physical and Occupational Therapy 5
    NURS 20950, Human Growth and Development for Health Professionals ... 3
    PHY 12111, Physics for Health Professionals .................... 3
    PTAT 10002, Analysis of Movement ................................ 4
    10009, Medical Terminology ..................................... 1
    20001, Therapeutic Communications in Physical Therapy .......... 1

III. GENERAL STUDIES COURSES ........................................... 16
    ENG 10001, College English I .................................... 3
    10002, College English II ........................................ 3
    PSYC 11762, General Psychology .................................. 3
    SOC 12050, Introduction to Sociology .......................... 3
    US 10001, University Orientation ................................ 1

Select an elective from the LERs* ...................................... 3

TOTAL 70

*COMM 15000 recommended.

A grade of C (2.0) or better in theory and a designation of “passing” in the clinical component must be achieved for each physical therapy 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.

Plastics Manufacturing Engineering Technology

Plastics manufacturing engineering technology provides students with knowledge and skills in both simulated and actual manufacturing environments in the areas of materials, design, computer-controlled equipment and manufacturing processes specific to the plastics industry. The program emphasizes the development of strong mathematical and analytical problem solving skills, and provides a foundation in chemistry and physics. It also incorporates computer applications in manufacturing processes and product development. Requirements articulate with the Plastics Manufacturing certificate and the technology 2+2 baccalaureate degree; contact an advisor for more information. This major is available at the Trumbull and Tuscarawas campuses.

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
The Associate of Applied Science in Radiologic Technology is offered at the Salem Campus. The program is approved and accredited by the Joint Review Committee on Education in Radiologic Technology, JRCERT, 20 N. Wacker Drive, Suite 900, Chicago, IL 60606-2901, 312-704-5300, www.jrcert.org. 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 advisor 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.

### Radiologic Technology

**I. TECHNICAL COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT 14000</td>
<td>Introduction to Radiologic Technology</td>
<td>3</td>
</tr>
<tr>
<td>14010</td>
<td>Clinical Education I</td>
<td>1</td>
</tr>
<tr>
<td>14011</td>
<td>Clinical Education II</td>
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<tr>
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<td>Clinical Education III</td>
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</tr>
<tr>
<td>14013</td>
<td>Clinical Education IV</td>
<td>1</td>
</tr>
<tr>
<td>14019</td>
<td>Radiographic Exposure and Imaging I</td>
<td>2</td>
</tr>
<tr>
<td>14020</td>
<td>Radiographic Procedures I</td>
<td>5</td>
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<tr>
<td>14021</td>
<td>Radiographic Procedures II</td>
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<td>14022</td>
<td>Radiographic Exposure and Imaging II</td>
<td>3</td>
</tr>
<tr>
<td>24002</td>
<td>Radiation Protection</td>
<td>3</td>
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<tr>
<td>24010</td>
<td>Clinical Education V</td>
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<tr>
<td>24011</td>
<td>Clinical Education VI</td>
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<tr>
<td>24020</td>
<td>Radiographic Procedures III</td>
<td>3</td>
</tr>
<tr>
<td>24022</td>
<td>Radiographic Exposure and Imaging III</td>
<td>3</td>
</tr>
</tbody>
</table>

**II. RELATED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EERT 22003</td>
<td>Technical Computing</td>
<td>3</td>
</tr>
<tr>
<td>IERT 22000</td>
<td>Statistical Process Control</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12001</td>
<td>Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>PHY 12201</td>
<td>Technical Physics I</td>
<td>3</td>
</tr>
</tbody>
</table>

**III. GENERAL STUDIES COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 10054</td>
<td>General &amp; Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>COMM 15000</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 10001</td>
<td>College English I</td>
<td>3</td>
</tr>
<tr>
<td>20002</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>US 10001</td>
<td>University Orientation</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL** 69-70

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**Associate of Applied Science**

**Systems/Industrial Engineering Technology**

Systems/Industrial Engineering Technology provides students with knowledge and skills in the areas of design and measurement in a variety of industries. Students receive hands-on experience with the equipment used in machine tool operations, testing and analysis and computer-aided design. This major is available at the Trumbull and Tuscarawas campuses. Systems engineering is also available as an individualized program option under mechanical engineering technology at the Ashland Campus.

Not all courses are available at all campuses, nor are all courses regularly scheduled.

**I. TECHNICAL COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EERT 22014</td>
<td>Microprocessors and Robotics</td>
<td>4</td>
</tr>
<tr>
<td>IERT 22000</td>
<td>Statistical Process Control</td>
<td>4</td>
</tr>
<tr>
<td>22006</td>
<td>Economic Decision Analysis</td>
<td>3</td>
</tr>
<tr>
<td>22010</td>
<td>Computer Integrated Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MERT 12000</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>12001</td>
<td>Computer-Aided Drafting</td>
<td>4</td>
</tr>
<tr>
<td>12004</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>22009</td>
<td>Robotics and Flexible Automation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Choose 10 hours from:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMT 21008</td>
<td>Computer Methods in Science and Engineering (3)</td>
<td>10</td>
</tr>
</tbody>
</table>

---

2005-2006 Kent State University Undergraduate Catalog
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

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

III. GENERAL STUDIES COURSES

COMM 15000, Introduction to Human Communication (3)
ENG 10001, College English I (3)
20002, Introduction to Technical Writing (3)
Social Sciences or Humanities electives (4)
from the LERs.
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 A)

The Associate of Technical Study 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 advisor.

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 81-83. The degree program should not exceed 73 hours.

Degree programs must be approved by the faculty advisor, 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 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 384 of this Catalog.

Emergency Medical Services

The Geauga Campus offers an associate’s degree completion program for students who have completed a state-certified paramedic training program and hold a current paramedic certificate.

Students interested in this program should apply to the Geauga Campus and must meet with an advisor to be admitted to this program. Upon completion of this program, students will be granted 30 credit hours on the basis of their paramedic certification training. In addition, they must successfully complete a minimum of 34-35 hours of courses selected in accordance with the following curriculum.

I. TECHNICAL COURSES

BSCI 10001, Human Biology (3)
20202, Biological Structure and Function (5)
BMRT 11009, Introduction to Management Technology (3)
CHEM 10050, Fundamentals of Chemistry (3)
COMT 11000, Introduction to Computer Systems (3)
MATH 11011, College Algebra (4)

II. RELATED COURSES

COMM 15000, Introduction to Human Communication (3)
ENG 10001, College English I (3)
10002, College English II (3)

III. GENERAL STUDIES COURSES

BSCI 10001, Human Biology (3)
20202, Biological Structure and Function (5)
BMRT 11009, Introduction to Management Technology (3)
CHEM 10050, Fundamentals of Chemistry (3)
COMT 11000, Introduction to Computer Systems (3)
MATH 11011, College Algebra (4)

TOTAL 70
Regional Campuses

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

**Associate of Technical Study (Category B)**

**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 either the Kent State Geauga or Trumbull campus and must meet with an advisor 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, Introduction to Human Communication .... 3
   ECON 22060, Principles of Microeconomics .......... 3
   ENG 10001, College English I ............................ 3
   20002, Introduction to Technical Writing ............... 3
   PSYC 11762, General Psychology ....................... 3
   US 10001, University Orientation ....................... 1
   General studies electives .............................. 4

Select from the LERs list in this Catalog, in consultation with an academic advisor.

**TOTAL** 66

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.

**Radiologic Technology Completion Program**

The Salem Campus offers associate’s degree completion programs for certified radiologic technologists and diagnostic medical sonographers who have completed their training at an accredited institution and 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 Diagnostic Medical Sonography,
• Associate of Technical Study in Nuclear Medicine Technology,
• Associate of Technical Study in Radiation Therapy Technology,
• Associate of Technical Study in Radiologic Technology.

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 (Category B) - Radiology Department Management

Thirty-two credits are awarded on the basis of certification as radiologic technologist.

### I. TECHNICAL COURSES .......................... 32
(Credits awarded on the basis of certification.)

### II. RELATED COURSES ......................... 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMRT 11000</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>11009</td>
<td>Introduction to Management Technology</td>
<td>3</td>
</tr>
<tr>
<td>21006</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>21008</td>
<td>Case Studies in Management Technology</td>
<td>3</td>
</tr>
<tr>
<td>21096</td>
<td>Individual Investigation</td>
<td>2</td>
</tr>
<tr>
<td>COMT 11000</td>
<td>Introduction to Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>RADT 21095</td>
<td>Special Topics: Contemporary Issues in Rad. Tech</td>
<td>3</td>
</tr>
</tbody>
</table>

### III. GENERAL STUDIES COURSES .................. 16-17

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 15000</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 10001</td>
<td>College English I</td>
<td>3</td>
</tr>
<tr>
<td>20002</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>US 10001</td>
<td>University Orientation</td>
<td>1</td>
</tr>
</tbody>
</table>

One of the following pairs: .................................................. 6-7

<table>
<thead>
<tr>
<th>Pair</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSCI 10001 and 10002</td>
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</tr>
<tr>
<td>ECON 22060 and 22061</td>
<td></td>
</tr>
<tr>
<td>MATH 11011 and 11012</td>
<td></td>
</tr>
<tr>
<td>PSYC 11762 and 21211</td>
<td></td>
</tr>
</tbody>
</table>

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.
MILITARY STUDIES

AIR FORCE RESERVE OFFICER TRAINING CORPS (AFROTC)

Overview

The Air Force ROTC (AFROTC) 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. Non-scholarship 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-part 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 enrolled in the Professional Officer Course (juniors and seniors) who are not already on scholarship are eligible for $1,500-per-semester tuition scholarships, $600 annual textbook allowance, 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.
Military Studies

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 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 $17,000; $250-, $300-, $350- or $400-per-month tax-free grant; and $900-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. 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 or apply online at www.armyrotc.com. 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 who are currently enrolled, Kent State University has given our ROTC program 16 dormitory room incentives and financial incentives to use toward discretionary scholarships. These incentive scholarships are awarded annually to scholarship and nonscholarship 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 at Kent State University full time 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 $350 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 pay.

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 28-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 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 16 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 2003) 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. Other activities such as physical conditioning, land navigation, rifle marksmanship and water survival 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 for freshman and sophomore students 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 Advanced Course 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. Combined Baccalaureate/Master’s Program in the College of Business Administration and Graduate School of Management

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.

C. 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 international relations majors and complete their undergraduate coursework 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 undergraduate 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.

D. Combined Baccalaureate in Fashion Merchandising/Master of Business Administration in the College of Business and Graduate School of Management

Fashion merchandising majors who qualify may enroll in the combined Bachelor of Science in Fashion Merchandising/Master’s of Business Administration program and complete both degrees within five years. Careful planning and advising are needed in order to successfully complete the programs in a timely way. Students should work closely with their faculty advisor if they intend to follow this plan.
In the freshman year, the math choice should be MATH 11012 or MATH 12002. When the student has achieved 90 hours or more in the merchandising program (beginning of the junior year) and has a GPA of 3.3 or higher, they should apply for conditional admission to the MBA program. This application must occur no later than April 1 of the junior year. The GMAT exam must be completed with an appropriately high score at the time application is made.

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://ccsweb.ccs.kent.edu/
COLLEGE OF CONTINUING STUDIES

The College of Continuing Studies (CCS), in partnership with academic units, sponsors nontraditional, credit and noncredit academic programs. The College of Continuing Studies encompasses Lifelong Learning, Public Service and Outreach, Evening and Weekend programs and the Gerontology Center. Visit our Web site for details: www.kentstatecontinuinged.com.

LIFELONG LEARNING
The College of Continuing Studies administers both credit and noncredit programs to meet lifelong learning needs of university, community and professional audiences. Additionally, 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). A student who never attends even one class session will receive a grade of NF (never attended, F). Students who stop attending prior to the course withdrawal deadline will receive a grade of SF (stopped attending, F). Both NF and SF grades will count as an F (zero quality points) in computing the GPA.

In collaboration with other academic and service units at the university, CCS offers credit workshops, conferences, noncredit courses and seminars for professionals in business, education, health care and numerous other disciplines. In partnership with the College of Business Administration, CCS provides customized training and consulting to organizations through the Center for Executive Education and Development (CEED). To receive additional information, contact the CEED program manager at 330-672-1176 or visit the Web site: www.ksuceed.com.

PUBLIC SERVICE AND OUTREACH
Through Public Service and Outreach, the College of Continuing Studies develops, manages and cosponsors learning opportunities for the enrichment and professional development of special targeted populations and communities. The Crisis Series, Summer Youth Program, Creative Connections Institute and Saturday Art programs are among these opportunities. To receive additional information or to be placed on a mailing list, contact the College of Continuing Studies, 204 Michael Schwartz Center, 330-672-3237, or visit our Web site: www.kentstatecontinuinged.com.

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 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: www.ksugerontologycenter.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. Selected evening and weekend programs may permit students to complete requirements for a variety of undergraduate degrees. Students should contact academic departments about the availability of specific degree programs. If you are an adult student interested in attending evening and weekend programs, please contact the Office of Adult Services, 330-672-7933.

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 of Classes, contact the College of Continuing Studies, 204 Michael Schwartz Center, 330-672-3233 after March 1; you may fax a request to 330-672-2079, e-mail mmandala@kent.edu or visit our Web site at www.kentstatecontinuinged.com.