

Educational Programs/Choosing a Technical Career Fall 1999-Summer 2000 Catalog

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Associate of Arts Degree*

The Arts and Sciences curriculum includes a range of course offerings in liberal arts and sciences for all students at the College. Students may enroll in a sequence of courses to earn either the associate of arts degree or the associate of science degree.

Study in the arts and sciences is the classic approach for preparing oneself for life and its many challenges with a broad education founded in history, literature, social sciences and physical sciences. For those students who wish to continue their studies toward the completion of a four-year degree after leaving Cuyahoga Community college, it will be necessary to plan a program that provides for eventual transfer of credits to a baccalaureate degree-granting college or university.

A large number of CCC students plan programs that will transfer to four-year colleges and universities by enrolling in what is usually referred to as the Transfer, or University Parallel, curriculum. This course work is the equivalent of the courses offered during the first two years at a four-year institution. Information about planning a program to transfer to a university is provided in the Planning Your Transfer Program at CCC section of this Catalog.

Degree candidates at Cuyahoga Community College must be in good standing. An associate of arts degree will be granted to the student completing the following requirements:

General Graduation Requirements

- The satisfactory completion of no fewer than 62 semester credit hours.
- The completion of no fewer than 20 of the 62 credit hours while in attendance at Cuyahoga Community College.
- The accumulation of a minimum grade point average of "C" or better (2.0) for all courses completed.

I. Specific Graduation Requirements

A. Minimum competence in communication skills by completing the following sequence:

ENG-1010, College Composition I
ENG-1020, College Composition II AND EITHER
SPCH-1000, Fundamentals of Interpersonal Communication OR
SPCH-1010, Fundamentals of Speech Communication

B. Minimum competence in the social sciences by completing one of the following sequences:

1.
HIST-1010, History of Civilization I
HIST-1020, History of Civilization II
2.
HIST-1510, United States History to 1877
HIST-1520, United States History since 1877
3. Two of the following:
HIST-1700, History of Africa
HIST-1710, African-American History to 1877
HIST-1720, African-American History 1877 to Present
4. Political Science (any two courses)
5. SOC-1010, Introductory Sociology AND one additional course selected from either sociology or anthropology
6. ANTH-1010, Cultural Anthropology AND one additional course selected from either anthropology or sociology

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7. Two of the following (a, b, c):

- a. ANTH-1010, Cultural Anthropology or SOC-1010, Introductory Sociology
- b. ECON-1610, Principles of Macroeconomics
- c. POL-1010, American National Government

C. Minimum competence in mathematics by completing one of the following:

1. Successful completion of a three (3) semester credit hour mathematics course numbered 1060 or higher (NOTE: MATH-1140 and 1800/2800 may not be used to satisfy this requirement).
2. Achievement of 80 percent or higher on the Collegewide Mathematics Proficiency Examination

D. Minimum competency in the natural sciences by completing one of the following lab sciences:

1. BIO-1040/BIO-104L, The Cell and DNA/Laboratory
2. BIO-1050/BIO-105L, Human Body/Laboratory
3. Any laboratory science course

E. Minimum competence in the humanities by completing any course in the humanities areas listed below:

- | | |
|------------------------------------|----------------------|
| Art | Music |
| Dance | Philosophy |
| English (2000-level course) | Religious Studies |
| Foreign Languages | Speech Communication |
| Humanities | Theater Arts |
| Journalism and Mass Communications | |

II. Elective Graduation Requirements**

Courses taken for Specific Graduation Requirements cannot count toward fulfilling Elective Graduation Requirements.

A. Mathematics and Natural Sciences- No fewer than a total of three (3) semester credit hours from the natural sciences or mathematics areas listed below:

1. Biology
- Chemistry
- Earth Science
- Physical Science
- Physics

2. Mathematics (numbered 1060 or higher)

B. Humanities- No fewer than eight (8) semester credit hours selected from the humanities areas listed below:

- | | |
|------------------------------------|----------------------|
| Art | Music |
| Dance | Philosophy |
| English (2000-level course) | Religious Studies |
| Foreign Languages | Speech Communication |
| Humanities | Theater Arts |
| Journalism and Mass Communications | |

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C. Social Sciences- No fewer than four (4) semester credit hours selected from the areas of the social sciences listed below:

Anthropology
Economics
Education
Geography
History

Political Science
Psychology
Social Science
Sociology
Urban Studies

III. Health and Physical Education Requirements

Minimum competence in the health or physical education areas as verified by completing one of the following:

- A. HLTH-1100, Personal Health Education
- B. Two credit hours in physical education

IV. Program Requirements**

Satisfactory completion of the requirements of the Associate of Arts Degree program chosen by the candidate.

* Six semester hours in English literature and composition, 10 semester hours in Social and Behavioral Sciences, 10 semester hours in Natural Sciences/Mathematics, and 10 semester hours in Humanities must be fulfilled.

**Special Topics courses may not be used to meet Specific Graduation Requirements. Further, Special Topics course credits may be applied to the Elective, Physical Education, and/or Program Graduation Requirements ONLY.

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Associate of Science Degree*

Degree candidates at Cuyahoga Community College must be in good standing. An Associate of Science Degree will be granted to the student completing the following requirements:

General Graduation Requirements

- The satisfactory completion of no fewer than 62 semester credit hours.
- The completion of no fewer than 20 of the 62 credit hours while in attendance at Cuyahoga Community College.
- The accumulation of a minimum grade point average of "C" or better (2.0) for all courses completed.

I. Specific Graduation Requirements

A. Minimum competence in communication skills by completing the following sequence:

ENG-1010, College Composition I
ENG-1020, College Composition II AND EITHER
SPCH-1000, Fundamentals of Interpersonal Communication OR
SPCH-1010, Fundamentals of Speech Communication

B. Minimum competence in the social sciences by completing one of the following sequences:

1.
HIST-1010, History of Civilization I
HIST-1020, History of Civilization II
2.
HIST-1510, United States History to 1877
HIST-1520, United States History since 1877
3. Two of the following:
HIST-1700, History of Africa
HIST-1710, African-American History to 1877
HIST-1720, African-American History 1877 to Present
4. Political Science (any two courses)
5. SOC-1010, Introductory Sociology AND one additional course selected from either sociology or anthropology
6. ANTH-1010, Cultural Anthropology AND one additional course selected from either anthropology or sociology
7. Two of the following (a, b, c):
 - a. ANTH-1010, Cultural Anthropology or SOC-1010, Introductory Sociology
 - b. ECON-1610, Principles of Macroeconomics
 - c. POL-1010, American National Government

C. Minimum competence in mathematics by completing one of the following sequences:

1. MATH-1580, Precalculus; MATH-1610, Calculus I
2. MATH-1510, Trigonometry; MATH-1520, College Algebra; MATH-1610, Calculus I
3. MATH-1360, Technical Mathematics II; MATH-1610, Calculus I
4. MATH-1410, Elementary Probability and Statistics I; MATH-1470, Modern Mathematics for Business
MATH-1480, Modern Mathematics for Business and Social Sciences II and Social Sciences I

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D. Minimum competency in the natural sciences by completing one of the following sequences:

1. BIO-1040/BIO-104L, The Cell and DNA/Laboratory; BIO-1050/BIO-105L, Human Biology/Laboratory
2. CHEM-1010, Introduction to Inorganic Chemistry; CHEM-1020, Introduction to Organic Chemistry and Biochemistry
3. PHYS-1210, College Physics I; PHYS-1220, College Physics II
4. Two of the following (a, b, c):
 - a. PSCI-1010/PSCI-101L, Astronomy/Laboratory
 - b. PSCI-1020/PSCI-102L, Chemistry/Laboratory
 - c. PSCI-1030/PSCI-103L, Earth/Laboratory
5. Any laboratory science sequence

E. Minimum competence in the humanities by completing any course in the humanities areas listed below:

- | | |
|------------------------------------|----------------------|
| Art | Music |
| Dance | Philosophy |
| English (2000-level course) | Religious Studies |
| Foreign Languages | Speech Communication |
| Humanities | Theater Arts |
| Journalism and Mass Communications | |

II. Elective Graduation Requirements**

Courses taken for Specific Graduation Requirements cannot count toward fulfilling Elective Graduation Requirements.

A. Humanities- No fewer than five (5) semester credit hours selected from the humanities areas listed below:

- | | |
|------------------------------------|----------------------|
| Art | Music |
| Dance | Philosophy |
| English (2000-level course) | Religious Studies |
| Foreign Languages | Speech Communication |
| Humanities | Theater Arts |
| Journalism and Mass Communications | |

B. Social Sciences- No fewer than four (4) semester credit hours selected from the areas of the social sciences listed below:

- | | |
|--------------|-------------------|
| Anthropology | Political Science |
| Economics | Psychology |
| Education | Social Science |
| Geography | Sociology |
| History | Urban Studies |

III. Health and Physical Education Requirements

Minimum competence in the health or physical education areas as verified by completing one of the following:

- A. HLTH-1100, Personal Health Education
- B. Two credit hours in physical education

IV. Program Requirements**

Satisfactory completion of the requirements of the Associate of Science Degree program chosen by the candidate.

* Six semester hours in English literature and composition, ten semester hours in Social and Behavioral Sciences, ten semester hours in Natural Sciences/Mathematics, and ten semester hours in Humanities must be fulfilled.

**No more than six credit hours of Special Topics courses may be applied toward fulfilling graduation requirements. Further, Special Topics course credits may be applied to the Elective and/or Program Graduation Requirements ONLY.

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Associate of Applied Business Degree

Degree candidates at Cuyahoga Community College must be in good standing. An Associate of Applied Business Degree will be granted to the student completing the following requirements:

General Graduation Requirements

- The satisfactory completion of no fewer than 62 semester credit hours.
- The completion of no fewer than 20 of the 62 credit hours while in attendance at Cuyahoga Community College.
- The accumulation of a minimum grade point average of "C" or better (2.0) for all courses completed.

I. Specific Graduation Requirements

A. Minimum competence in communication skills by completing the following sequence:

ENG-1010, College Composition I AND EITHER
ENG-1020, College Composition II OR
SPCH-1000, Fundamentals of Interpersonal Communication OR
SPCH-1010, Fundamentals of Speech Communication

B. Minimum competence in the social sciences by completing one of the following sequences:

1.
SSCI 1030, Introduction to Social Science I
SSCI 1040, Introduction to Social Science II
2.
HIST 1010, History of Civilization I
HIST 1020, History of Civilization II
3.
HIST 1510, United States History to 1877
HIST 1520, United States History since 1877
4. Two of the following (a, b, c):
a. ANTH-1010, Cultural Anthropology or SOC-1010, Introductory Sociology
b. ECON-1610, Principles of Macroeconomics
c. POL-1010, American National Government

C. Minimum competence in mathematics by completing one of the following:

1. Successful completion of a three (3) semester credit hour mathematics course numbered 1060 or higher
NOTE: MATH-1140 and 1800/2800 may not be used to satisfy this requirement
2. Achievement of 80 percent or higher on the Collegewide Mathematics Proficiency Examination

D. Minimum competency in the natural sciences by completing one of the following:

1. BIO-1040, The Cell and DNA
2. BIO-1050, Human Biology
3. Any science course

E. Minimum competence in the humanities as verified by completing any course in the Humanities areas listed below:

Art	Music
Dance	Philosophy
English (2000-level course)	Religious Studies
Foreign Languages	Speech Communication
Humanities	Theater Arts
Journalism and Mass Communications	

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Associate of Applied Business Degree

II. Elective Graduation Requirement*

Completion of one course from any of the subject areas listed below. See specific program semester sequences for the choice of courses. Courses that have been used to complete any requirement listed under Specific Graduation Requirements cannot count toward fulfilling Elective Graduation Requirements.

A. Social Science:

Anthropology
Economics
Education
Geography
History

Political Science
Psychology
Social Science
Sociology
Urban Studies

B. Humanities:

Art
Dance
English (2000-level course)
Foreign Languages
Humanities
Journalism and Mass Communications

Music
Philosophy
Religious Studies
Speech Communication
Theater Arts

C. Natural Sciences:

Biology
Chemistry
Earth Science

Physical Science
Physics

D. Mathematics

III. Health and Physical Education Requirements

Minimum competence in the health or physical education areas as verified by completing one of the following:

- A. HLTH-1100, Personal Health Education
- B. Two credit hours in physical education

IV. Program Requirements*

Satisfactory completion of the requirements of the Associate of Applied Business Degree program chosen by the candidate. The program requirements are identified in the technical/occupational semester sequences.

*No more than six credit hours of Special Topics courses may be applied toward fulfilling graduation requirements. Further, Special Topics course credits may be applied to the Elective and/or Program Graduation Requirements ONLY.

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Associate of Applied Science Degree

Degree candidates at Cuyahoga Community College must be in good standing. An Associate of Applied Science Degree will be granted to the student completing the following requirements:

General Graduation Requirements

- The satisfactory completion of no fewer than 62 semester credit hours.
- The completion of no fewer than 20 of the 62 credit hours while in attendance at Cuyahoga Community College.
- The accumulation of a minimum grade point average of "C" or better (2.0) for all courses completed.

I. Specific Graduation Requirements

A. Minimum competence in communication skills by completing the following sequence:

ENG-1010, College Composition I AND EITHER
ENG-1020, College Composition II OR
SPCH-1000, Fundamentals of Interpersonal Communication OR
SPCH-1010, Fundamentals of Speech Communication

B. Minimum competence in the social sciences by completing one of the following sequences:

1.
SSCI 1030, Introduction to Social Science I
SSCI 1040, Introduction to Social Science II

2.
HIST-1010, History of Civilization I
HIST-1020, History of Civilization II

3. Two of the following (a, b, c):
a. ANTH-1010, Cultural Anthropology or SOC-1010, Introductory Sociology
b. ECON-1610, Principles of Macroeconomics
c. POL-1010, American National Government

4. PSY-1010, General Psychology AND PSY- any 2000-level psychology course

C. Minimum competence in mathematics by completing one of the following:

1. Successful completion of a mathematics course numbered above 1000
NOTE: MATH-1800/2800 may not be used to satisfy this requirement
2. Achievement of 80 percent or higher on the Collegewide Mathematics Proficiency Examination

D. Minimum competency in the natural sciences by completing one of the following lab sciences:

1. BIO-1040/BIO-104L, The Cell and DNA/Laboratory
2. BIO-1050/BIO-105L, Human Biology/Laboratory
3. Any laboratory science course

E. Minimum competence in the humanities as verified by completing any course in the humanities areas listed below:

Art	Music
Dance	Philosophy
English (2000-level course)	Religious Studies
Foreign Languages	Speech Communication
Humanities	Theater Arts
Journalism and Mass Communications	

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Associate of Applied Science Degree

II. Elective Graduation Requirement*

Completion of one course from any of the subject areas listed below. See specific program semester sequences for the choice of courses. Courses that have been used to complete any requirement listed under Specific Graduation Requirements cannot count toward fulfilling Elective Graduation Requirements.

A. Social Science:

Anthropology
Economics
Education
Geography
History

Political Science
Psychology
Social Science
Sociology
Urban Studies

B. Humanities:

Art
Dance
English (2000-level course)
Foreign Languages
Humanities
Journalism and Mass Communications

Music
Philosophy
Religious Studies
Speech Communication
Theater Arts

C. Natural Sciences:

Biology
Chemistry
Earth Science

Physical Science
Physics

D. Mathematics

III. Health and Physical Education Requirements

Minimum competence in the health or physical education areas as verified by completing one of the following:

- A. HLTH-1100, Personal Health Education
- B. Two credit hours in physical education

IV. Program Requirements*

Satisfactory completion of the requirements of the Associate of Applied Science Degree program chosen by the candidate. The program requirements are identified in the technical/occupational semester sequences.

*No more than six credit hours of Special Topics courses may be applied toward fulfilling graduation requirements. Further, Special Topics course credits may be applied to the Elective and/or Program Graduation Requirements ONLY.

Associate of Technical Study Degree

The associate of technical study (ATS) degree allows students to combine courses from two or more technical programs to create a degree that focuses on a special career interest. Another ATS option is for students who have successfully completed a course of technical studies in a noncredit bearing post secondary institution that has an articulation agreement with the College. Based upon the articulation agreement, the student may receive up to 30 transfer credits towards an associate of technical study degree in the specific program identified in the agreements.

Cuyahoga Community College will grant an associate of technical study (ATS) degree to students in good standing upon completion of the following requirements:

General Graduation Requirements

- The satisfactory completion of no fewer than 62 semester hours.
- The completion of no fewer than 20 of the 62 credits hours while in attendance at Cuyahoga Community College.
- A student is to attain a "C" (2.00) average for all work at the College.

I. Specific Graduation Requirements

- Completion of an application for admission to the ATS program including an outline of specific course work to be taken in the intended area(s) of concentration. To ensure the consistency and relevancy of the course work proposed, a minimum of 20 semester hours of course work must be completed at Cuyahoga Community College after the ATS application has been approved.
- Completion of a minimum of 30 semester hours in technical studies. The completed credits must be clearly identifiable with a career objective and composed of a combination of technical courses drawn from two or more technical programs currently offered by the College. Credits may be awarded for completed training received by a student at other public, private, or proprietary post secondary institutions, post secondary vocational centers and schools conducted by business or industry assessed by Cuyahoga Community College as meeting its academic standards.
- Completion of a minimum of eight semester hours of Mathematics or Natural Sciences of which six must be related to, or supportive of, the technical component of the degree program. A minimum math proficiency demonstrated by successfully completing MATH-1160 Technical Mathematics I, or MATH-1200 Intermediate Algebra or higher (excluding MATH-1800/2800).
- Completion of a minimum of six semester hours of Communication Skills to include ENG-1010 College Composition I (3 semester hours), and an additional course selected from ENG-1020 College Composition II, SPCH-1000 Fundamentals of Interpersonal Communication or higher, any 2000-level English course or OADM-2010 Business Communications.
- Completion of a minimum of eight semester hours selected from the areas of the Social Sciences and Humanities with a minimum of two semester hours selected from each.
- Completion of HLTH-1100 Personal Health Education or two semester hours of Physical Education.

II. Elective Graduation Requirements

Completion of a minimum of eight semester hours of course work that shall be related to the occupational objective of the student or the basic components to further develop technical competencies.

NOTE: Students must have an approved educational plan in order to be eligible for an ATS program. The process to gain approval begins with an appointment with a College counselor.

One-Year Certificate of Proficiency

The One-Year Certificate of Proficiency programs prepare the student for proficiency in an occupation field, after the student successfully completes a prescribed education program.

Each program that offers a Certificate of Proficiency is approved through the established College curriculum process and by the Board of Trustees. Requirements for the certificates are uniformly applied throughout the College; the issuing authority is the District President. Students must submit a Petition for Certificate form to the Office of Admissions and Records according to the graduation deadline dates published in Academic Calendar.

- A. Certificate candidates at Cuyahoga community college must be in good standing. A Certificate of Proficiency will be granted to the student completing the following requirements:
 1. The satisfactory completion of no fewer than 30 semester credit hours.
 2. The completion of no fewer than one half of the courses for the certificate while in attendance at Cuyahoga community college.
 3. The accumulation of a minimum grade point average of "C" or better (2.00) for all courses completed.
 - 4.
- B. Certificate Program Requirements:
 1. ENG-1010, College Composition
 2. At least one 1000 level Mathematics course as specified by the certificate program.
 3. Completion of all courses as identified in the one-year certificate program semester sequences.

Post-Degree Professional Certificate

The Post-Degree Professional Certificate is a short-term, high quality program of instruction for those students who have already completed an academic degree and are pursuing additional certification in professional and technical fields.

Each program, which offers a Post-Degree Professional Certificate, is approved through the established College curriculum process and the Board of Trustees. Requirements for these certificates are uniformly applied throughout the College; the issuing authority is the District President. Students must complete a Petition for Certificate form at the Office of Admissions and Records according to the graduation deadline dates published in the Academic Calendar. Post-Degree Professional Certificate will be granted to the student who has fulfilled the following requirements:

- Completed an associate degree or higher from a regionally accredited post secondary institution.
- The satisfactory completion of no fewer than 20 semester hours as identified in the specific post-degree professional certificate.
- The completion of fewer than one half of the courses for the post-degree professional certificate while in attendance at Cuyahoga Community College.
- The accumulation of a minimum grade point average of 2.50

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Catalog-in-Force

The purpose of the College Catalog is to inform students of College requirements for graduation or for the completion of certificate programs.

The availability of resources and faculty, technological changes and the requirements of accrediting and licensing agencies influence curricula and consequently the College Catalog the College reserves the right to change course offerings and academic requirements as deemed necessary.

With time and other necessary limitations, a student's graduation or certificate requirements will be mandated by the College Catalog-in-Force at the time the student is officially enrolled in the College.

When the requirements listed in the Catalog-in-Force at the time of entry to the College are no longer available, the student and the College will develop an individual plan to meet graduation or certificate requirements.

The Executive Vice President for Academic and Student Affairs is authorized and directed to develop procedures necessary to implement this resolution.

Choosing a Technical Career Field

Students who want to prepare for specific technical roles in various fields should consider the several program concentrations offered in the general fields of business engineering, technologies, health, public safety, and agriculture/natural resources.

Study in these programs leads to either the Associate of Applied Business or Associate of Applied Science degree; one of the customized degrees available in technical study; or one of the short-term certificate credentials.

Awards of Study

The Board of Trustees of Cuyahoga Community College authorizes awards of study to complement the College's associate's degree programs. For a complete list of awards of study available, contact your campus counseling office.