Degree and Certificate Program Requirements

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Degree Programs

Cuyahoga Community College offers the following five (5) degrees: Associate of Arts, Associate of Science, Associate of Applied Business, Associate of Applied Science and Associate of Technical Study.

All curriculum is approved through the established College curriculum approval process. Students petitioning for a degree must submit a petition form to the Enrollment Center according to the graduation deadline published in the Academic Calendar.

General Education Statement of Purpose

General Education refers to that broad body of knowledge and skills common to all educated people, regardless of their professions. A general education enables students to demonstrate measurable knowledge and intellectual skills that generate a lifelong habit of inquiry and decision-making. It fosters a better understanding of the world’s cultural complexity. It prepares students to be more responsible citizens and more judicious inhabitants of the world. The General Education curriculum of Cuyahoga Community College prepares students for a more fulfilling life.

General Education Outcomes

As a graduate of Cuyahoga Community College, students will become members of a community of learners who are knowledgeable and competent in the following areas:

Communication
Organize images, symbols and standard language in written, verbal and non-verbal formats to communicate clearly and concisely with an intended audience.

Critical Thinking
Integrate, analyze and synthesize ideas from multiple disciplines in order to make evidence-based decisions and find rational solutions to problems; manipulate symbols from a variety of systems such as visual, verbal, mathematical and logical.

Information Literacy
Determine where and how to acquire, evaluate, and ethically use information from multiple sources for academic success and life-long learning.

Global Awareness
Identify the influence that global integrated systems – such as economic, social, cultural, environmental, technological and political – have on students’ day-to-day lives; explain how changes in these systems affect their families, communities, employers and careers; adapt to a rapidly changing global community.

Cultural Sensitivity
Demonstrate sensitivity to the unique views and values of individuals from different cultures (others and their own), both within and beyond the United States; respectfully acknowledge the similarities and differences between cultural groups; address the cultural stereotypes and misconceptions that exist in society.

Civic Responsibility
Demonstrate civic responsibility that balances the personal consequences of students’ actions and inactions with the likely effects on the larger community.

Associate of Arts Degree and Associate of Science 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 (AA) degree or the Associate of Science (AS) 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 natural 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 Tri-C 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 General Curriculum Information section.
Degree and Certificate Program Requirements

General Education Requirements
Each of the College’s degree programs require that students complete a set amount of courses in the areas of general education which include: Communication, Mathematics and Data Analysis, Natural and Physical Sciences, Arts and Humanities, and Social and Behavioral Sciences. Students completing the general education requirements, along with the specific program requirements for a degree will have achieved the College’s general education outcomes.

Communication (9 semester credits):
The communication skills of reading analytically, writing fluently, listening critically, and speaking articulately are essential. Students must complete the following to meet this requirement:
- ENG-1010 or ENG-101H College Composition I *
- ENG-1020 or ENG-102H College Composition II
- Three (3) semester credits selected from the following subject areas (exclusive of developmental education, ENG-1000, and English as a Second Language courses):
  - American Sign Language
  - English
  - Foreign Languages
  - Speech Communication

* Students who transfer in credits for ENG-1020 without having credit for ENG-1010 will have ENG-1010 waived, but the required 9 hours in Communication must be earned.

Mathematics and Data Analysis (3 semester credits):
The ability to integrate numerical, symbolical, and spatial methods for scientific inquiry into the physical, natural, or social and behavioral sciences is essential. Students must complete the following to meet this requirement:
- Three (3) semester credits of Mathematics at the 1000-level or higher

Natural and Physical Sciences (6 semester credits):
The ability to undertake scientific inquiry in the physical and biological sciences is essential for students seeking an Associate of Arts degree. Students must complete the following to meet this requirement:
- Six (6) semester credits selected from the following course(s) and subject areas (excluding developmental courses):
  - ANTH-1210
  - Biology
  - Chemistry
  - Earth Science
  - Physical Science
  - Physics
- Must include one (1) laboratory experience.
Degree and Certificate Program Requirements

Social and Behavioral Sciences (9 semester credits)
The opportunity to obtain a broader knowledge of the Social and Behavioral Sciences in order to understand, analyze, and describe aspects of human behavior from diverse political, social, historical, and cultural perspectives is an important part of a liberal arts education. Students must complete the following to meet this requirement:

- Nine (9) semester credits selected from the following subject areas/courses (excluding developmental courses):
  - Anthropology* JMC-2220
  - Economics JMC-2410
  - Education JMC-2480
  - Geography JMC-2830
  - JMC-1011 Political Science
  - JMC-1410 Psychology
  - JMC-1610 Sociology
  - JMC-2000 Urban Studies
  - JMC-2010 WST-2010
  - JMC-2020 WST-2120
  - JMC-2030 WST-2850

*ANTH-1210 cannot be used to meet the Social & Behavioral Sciences Requirement.

Arts and Humanities (9 semester credits)
The appreciation of the achievements of the Arts and Humanities provides the ability to integrate learning within a complex global perspective; to gain an awareness of and respect for different cultures; and to integrate ethical decision making in dealing responsibly with personal, family, and community issues. Students must complete the following to meet this requirement:

- Three (3) semester credits selected from the following subject areas/courses:
  - American Sign Language MUS-1050
  - ART-1010 MUS-2500
  - ART-1040 MUS-2520
  - ART-2020 MUS-2530
  - ART-2030 MUS-2540
  - DANC-1100 MUS-2550
  - English 2000 level literature courses Philosophy
  - Foreign Languages Religious Studies
  - History Speech Communication
  - Humanities THEA-1010
  - JMC-1310 THEA-2210
  - JMC-2040 THEA-2220
  - JMC-2310 WST-1510
  - MUS-1010 WST-1520
  - MUS-1020 WST-200H
  - MUS-1030 WST-2020
  - MUS-1040 WST-2030

- Six (6) semester credits selected from the following Arts and Humanities subject areas/courses (excluding developmental courses):
  - American Sign Language Music
  - Art Philosophy
  - Dance Religious Studies
  - English 2000 level Speech Communication
  - literature courses Theatre Arts
  - Foreign Languages WST-1510
  - History WST-1520
  - Humanities WST-200H
  - JMC-1310 WST-2020
  - JMC-2040 WST-2030
  - JMC-2310

- Courses that have been used to complete the Communication requirement cannot count toward fulfilling the Arts and Humanities requirement.

Elective Graduation Requirements
The remaining semester credit hours needed to complete the required minimum total of sixty (60) semester credits may be chosen from 1000-level courses and above, exclusive of developmental coursework and physical education. Courses taken for General Education Requirements cannot count toward fulfilling Elective Graduation Requirements. Students wishing to maximize the use of credits toward a bachelor’s degree should select electives according to the requirements of their intended transfer destination school or major. The State-approved Transfer Module provides a general guide for transferability.

Cross-listed courses
Cross-listed courses are identical courses offered in two or more subject areas. They differ only in subject area code and course number. Credit may be earned once for cross-listed courses. If a course is cross-listed with another course that fills a general education or program requirement, either course meets the requirement. (See Appendix V for listing of Cross-listed courses.)
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:

**Comprehensive Graduation Requirements**

The Associate of Science degree prepares students to continue their education at the bachelor’s degree level. When selecting courses for this degree, students should select courses according to the requirements of their intended transfer destination school and major; undecided students may use the state-approved Transfer Module as a general guide for transferability.

The following degree requirements are intended to help ensure that students with an Associate of Science degree have completed the first two years of a baccalaureate degree.

1. The satisfactory completion of 60 semester credit hours (exclusive of physical education) at the 1000-level or higher.
2. The achievement of a minimum overall grade point average of 2.00 for all courses attempted at Cuyahoga Community College (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
3. The completion of a minimum of 12 credits of advanced coursework (exclusive of physical education and 1800 level special topics and independent study/research courses) of the 60 semester credits. Advanced coursework is defined as follows: 2000 level courses, MATH-1400 level and above, BIO-1500 level and above, CHEM-1300 level and above, and PHYS-1200 level and above.
4. The completion of no fewer than 20 of the required 60 semester hours (exclusive of physical education) at the 1000 level or higher while in attendance at Cuyahoga Community College.
5. Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.

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**Degree and Certificate Program Requirements**

**General Education Requirements**

Each of the College’s degree programs require that students complete a set amount of courses in the areas of general education which include: Communication, Mathematics and Data Analysis, Natural and Physical Sciences, Arts and Humanities, and Social and Behavioral Sciences. Students completing the general education requirements, along with the specific program requirements for a degree will have achieved the College’s general education outcomes.

**Communication (9 semester credits):**

The communication skills of reading analytically, writing fluently, listening critically, and speaking articulately are essential. Students must complete the following to meet this requirement:

- ENG-1010 or ENG-101H College Composition I *
- ENG-1020 or ENG-102H College Composition II
- Three (3) semester credits selected from the following subject areas (exclusive of developmental education, ENG-1000, and English as a Second Language courses):
  - American Sign Language
  - English
  - Foreign Languages
  - Speech Communication

* Students who transfer in credits for ENG-1020 without having credit for ENG-1010 will have ENG-1010 waived, but the required 9 hours in Communication must be earned.

**Mathematics and Data Analysis (6 semester credits):**

The ability to integrate numerical, symbolical, and spatial methods for scientific inquiry into the physical, natural, or social and behavioral sciences is essential. Students must complete the following to meet this requirement:

- Six (6) semester credits at the MATH-1400 level or higher.

**Natural and Physical Sciences (16 semester credits):**

The ability to undertake scientific inquiry in the physical and biological sciences is essential for students seeking an Associate of Science degree. Students must complete the following to meet this requirement:

- Sixteen (16) semester credits selected from the following course(s) & subject areas: ANTH-1210, Biology, Chemistry, Earth Science, Physical Sciences, and Physics.
- Must include two (2) laboratory experiences.
Degree and Certificate Program Requirements

Social and Behavioral Sciences (6 semester credits):
The opportunity to obtain a broader knowledge of the Social and Behavioral Sciences in order to understand, analyze, and describe aspects of human behavior from diverse political, social, historical, and cultural perspectives is an important part of a liberal arts education. Students must complete the following to meet this requirement:

- Six (6) semester credits selected from the following subject areas/courses (excluding developmental courses):
  - Anthropology* JMC-2410
  - Economics JMC-2480
  - Education JMC-2830
  - Geography Political Science
  - JMC-1011 Psychology
  - JMC-1410 Sociology
  - JMC-1610 Urban Studies
  - JMC-2000 WST-2010
  - JMC-2010 WST-2120
  - JMC-2220 WST-2850

*ANTH-1210 cannot be used towards the Social and Behavioral Sciences Requirement.

Arts and Humanities (6 semester credits):
The appreciation of the achievements of the Arts and Humanities provides the ability to integrate learning within a complex global perspective; to gain an awareness of and respect for different cultures; and to integrate ethical decision making in dealing responsibly with personal, family, and community issues. Students must complete the following to meet this requirement:

- Three semester credits selected from the following subject areas/courses:
  - American Sign Language MUS-1050
  - Language MUS-2050
  - ART-1010 MUS-2500
  - ART-1040 MUS-2510
  - ART-2020 MUS-2520
  - ART-2030 MUS-2530
  - DANC-1100 MUS-2540
  - English 2000 level MUS-2550
  - literature courses Philosophy
  - Foreign Languages Religious Studies
  - History Speech Communication
  - Humanities THEA-1010
  - JMC-1310 THEA-1100
  - JMC-2040 THEA-2210
  - JMC-2310 THEA-2220
  - MUS-1010 WST-1510
  - MUS-1020 WST-1520
  - MUS-1030 WST-200H
  - MUS-1040 WST-2020
  - MUS-1050 WST-2030

- Three (3) semester credits selected from the following subject areas/courses:
  - American Sign Language JMC-2470
  - Art Music
  - Dance Philosophy
  - English 2000 level Religious Studies
  - literature courses Speech Communication
  - Foreign Languages Theatre Arts
  - History WST-1510
  - Humanities WST-1520
  - JMC-1310 WST-200H
  - JMC-2040 WST-2020
  - JMC-2310 WST-2030

- Courses that have been used to complete the Communication requirement cannot count toward fulfilling the Arts and Humanities requirement.

Elective Graduation Requirements
The remaining semester credits needed to complete the required minimum total of sixty (60) semester credits may be chosen from 1000-level courses and above, exclusive of developmental coursework. Courses taken for general education requirements cannot count toward fulfilling elective graduation requirements. Students wishing to maximize the use of credits toward a bachelor's degree should select electives according to the requirements of their intended transfer designation school or major. The state-approved Transfer Module provides a general guide for transferability.

Cross-listed courses
Cross-listed courses are identical courses offered in two or more subject areas. They differ only in subject area code and course number. Credit may be earned once for cross-listed courses. If a course is cross-listed with another course that fills a general education or program requirement, either course meets the requirement. (See Appendix V for listing of Cross-listed courses.)
Associate of Applied Business Degree and Associate of Applied Science Degree

The Associate of Applied Business (AAB) degree and Associate of Applied Science (AAS) degree feature programs in the general areas of business technologies, health careers, engineering and industrial technologies, public service technologies, agriculture and natural resources technologies, and applied industrial technologies.

Tri-C offers more than 80 technical degree programs, many of which have career ladder plans consisting of Awards, Short-Term Certificates and Certificates of Proficiency developed to meet short-term objectives while pursuing associate degree goals. In addition, students in the Associate of Applied Business and Associate of Applied Science degree programs are expected to demonstrate proficiency in their career fields via capstone coursework.

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:

Comprehensive Graduation Requirements

The Associate of Applied Business degree prepares students with the skills necessary to enter and compete effectively in today’s workforce.

1. The satisfactory completion of 60 semester credit hours (exclusive of physical education) at the 1000-level or higher.
2. The achievement of a minimum overall grade point average of 2.00 for all courses attempted at Cuyahoga Community College (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
3. The completion of a minimum of 12 credits of advanced coursework (exclusive of physical education and 1800 level special topics and independent study/research courses) of the 60 semester credits. Advanced coursework is defined as follows: 2000 level courses, MATH-1400 level and above, BIO-1500 level and above, CHEM-1300 level and above, and PHYS-1200 level and above.
4. The completion of no fewer than 20 of the required 60 semester hours (exclusive of physical education) at the 1000 level or higher while in attendance at Cuyahoga Community College.
5. Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the
Arts and Humanities/Social and Behavioral Sciences/
Natural and Physical Sciences (6 semester credits):
The appreciation of the achievements of the Arts and
Humanities, Social and Behavioral Sciences, Natural and
Physical Sciences provides the ability to integrate learning
within a complex global perspective; to gain an awareness of
and respect for different cultures; to integrate ethical
decision making in dealing responsibly with personal,
family, and community issues; and to understand, analyze,
and describe aspects of human behavior from diverse
political, social, historical, and cultural perspectives. To
meet this requirement, students must complete the
following:

- Select six (6) semester credits from at least two of the
  following areas, with a minimum of 3 credits in each area:

### Natural and Physical Sciences
- ANTH-1210
- Biology
- Chemistry
- Earth Science
- Physical Science
- Physics

The following courses from non-science subject areas can
be counted toward this requirement for the Associate of
Applied Business degree: DIET-1200, MT-1242, MT-1272,
and MT-1280.

### Social and Behavioral Sciences
- Anthropology
- Economics
- Education
- Geography
- JMC-1011
- JMC-1410
- JMC-1610
- JMC-2000
- JMC-2010
- JMC-2220

### Arts and Humanities
- American Sign Language
- ART-1010
- ART-1040
- ART-2020
- ART-2030
- DANC-1100
- English 2000 level
- Foreign Languages
- History
- Humanities
- JMC-1310
- JMC-2040

| MUS-2540 | THEA-2210 |
| MUS-2550 | THEA-2220 |
| Philosophy | WST-1510 |
| Religious Studies | WST-1520 |
| Speech Communication | WST-200H |
| THEA-1010 | WST-2020 |
| THEA-1100 | WST-2030 |

- Courses that have been used to complete the
  Communication requirement cannot count toward
  fulfilling Arts and Humanities requirement.

### Program Requirements
Program requirements are outlined by the specific technical
program sequences in this College Catalog. Approximately
one-half of each Associate of Applied Business program
requirements must include a minimum of 15 additional
credits of general education or applied general education
(i.e. “basic” coursework), for a total of 30 credits of non-
technical coursework. Applied general education includes a
focus on “21st century” skills and knowledge, including:
information and communication literacy, critical thinking
and problem solving, interpersonal and collaborative skills,
global awareness, and financial, economic, business and
civic literacy. Technical program concentrations should
consist of twelve (12) to sixteen (16) semester credits of
technical specialization including a minimum one-semester
credit Capstone Course.

The Capstone Course provides students with opportunities
to apply technical, oral, and written skills; to prepare
resumes and/or portfolios and develop interview skills; to
study history and trends in the profession; and/or to discuss
ethical and global issues within the profession. The program
requirements are identified in the Associate of Applied Degree
Program Sequences in this Catalog.

### Cross-listed courses
Cross-listed courses are identical courses offered in two or
more subject areas. They differ only in subject area code and
course number. Credit may be earned once for cross-listed
courses. If a course is cross-listed with another course that
fills a general education or program requirement, either
course meets the requirement. (See Appendix V for listing of
Cross-listed courses.)
**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:

### Comprehensive Graduation Requirements

1. The satisfactory completion of 60 semester credit hours (exclusive of physical education) at the 1000-level or higher.
2. The achievement of a minimum overall grade point average of 2.00 for all courses attempted at Cuyahoga Community College (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
3. The completion of a minimum of 12 credits of advanced coursework (exclusive of physical education and 1800 level special topics and independent study/research courses) of the 60 semester credits. Advanced coursework is defined as follows: 2000 level courses, MATH-1400 level and above, BIO-1500 level and above, CHEM-1300 level and above, and PHYS-1200 level and above.
4. The completion of no fewer than 20 of the required 60 semester hours (exclusive of physical education) at the 1000 level or higher while in attendance at Cuyahoga Community College.
5. Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the general education and program graduation requirements unless otherwise noted.

### General Education Requirements

Each of the College’s degree programs require that students complete a set amount of courses in the areas of general education which include: Communication, Mathematics and Data Analysis, Natural and Physical Sciences, Arts and Humanities, and Social and Behavioral Sciences. Students completing the general education requirements, along with the specific program requirements for a degree will have achieved the College’s general education outcomes.

All Associate of Applied Science degrees have been designed to meet the general education requirements as listed below. Most programs have selected specific courses to meet the general education requirements. For program specific requirements and/or recommendations, see the Associate of Applied Degree Program Sequences in this Catalog (pp. 74-238).

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**Degree and Certificate Program Requirements**

**Communication (6 semester credits):** The communication skills of reading analytically, writing fluently, listening critically, and speaking articulately are essential. Students must complete the following to meet this requirement:

- ENG-1010 or ENG-101H College Composition I *
- Three (3) semester credits selected from the following subject areas (exclusive of developmental education, ENG-1000, and English as a Second Language courses):
  - American Sign Language
  - English
  - Foreign Languages
  - Speech Communication
  * Students who transfer in credits for ENG-1020 without having credit for ENG-1010 will have ENG-1010 waived, but the required 6 hours in Communication must be earned.

**Mathematics and Data Analysis (3 semester credits)**
The ability to integrate numerical methods for use in today’s workforce is essential. Students must complete the following to complete this requirement:

- Three (3) semester credits of Mathematics at the 1000-level or higher.

**Arts and Humanities/Social and Behavioral Sciences/Natural and Physical Sciences (6 semester credits)**
The appreciation of the achievements of the Arts and Humanities, Social and Behavioral Sciences, Natural and Physical Sciences provides the ability to integrate learning within a complex global perspective; to gain an awareness of and respect for different cultures; to integrate ethical decision making in dealing responsibly with personal, family, and community issues; and to understand, analyze, and describe aspects of human behavior from diverse political, social, historical, and cultural perspectives. To meet this requirement, students must complete the following:

- Select six (6) semester credits from at least two of the following areas, with a minimum of 3 credits in each area:
  - **Natural and Physical Sciences**
    - ANTH-1210
    - Biology
    - Chemistry
    - Earth Science
    - Physical Science
    - Physics
The following courses from non-science subject areas can be counted toward this requirement for the Associate of Applied Science degree: DIET-1200, MT-1242, MT-1272, and MT-1280.

Social and Behavioral Sciences

Anthropology
Economics
Education
Geography
JMC-1011
JMC-1410
JMC-1610
JMC-2000
JMC-2010
JMC-2220

Arts and Humanities

American Sign Language
ART-1010
ART-1040
ART-2020
ART-2030
DANC-1100
English 2000 level literature courses
Foreign Languages
History
Humanities
JMC-1310
JMC-2040
JMC-2310
MUS-1010
MUS-1020
MUS-1030
MUS-1040
MUS-1050
MUS-2030
MUS-2500

- Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities requirement.

Program Requirements

Program requirements are outlined by the specific technical program sequences in this College Catalog. Approximately one-half of each Associate of Applied Science program requirements must include a minimum of 15 additional credits of general education or applied general education (i.e. “basic” coursework), for a total of 30 credits of non-technical coursework. Applied general education includes a focus on “21st century” skills and knowledge, including: information and communication literacy, critical thinking and problem solving, interpersonal and collaborative skills, global awareness, and financial, economic, business and civic literacy. Technical program concentrations should consist of twelve (12) to sixteen (16) semester credits of technical specialization including a minimum one-semester credit Capstone Course.

The Capstone Course provides students with opportunities to apply technical, oral, and written skills; to prepare resumes and/or portfolios and develop interview skills; to study history and trends in the profession; and/or to discuss ethical and global issues within the profession. The program requirements are identified in the Associate of Applied Degree Program Sequences in this Catalog.

Cross-listed courses

Cross-listed courses are identical courses offered in two or more subject areas. They differ only in subject area code and course number. Credit may be earned once for cross-listed courses. If a course is cross-listed with another course that fills a general education or program requirement, either course meets the requirement. (See Appendix V for listing of Cross-listed courses.)
Associate of Technical Study Degree

The Associate of Technical Study (ATS) degree allows students to combine courses from two or more different 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 non-credit 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 toward an Associate of Technical Study degree in the specific program identified in the agreements.

Degree and Certificate Program Requirements

Humanities, and Social and Behavioral Sciences. Students completing the general education requirements, along with the specific program and elective requirements for a degree will have achieved the College’s general education outcomes.

Communication (6 semester credits)
The communication skills of reading analytically, writing fluently, listening critically, and speaking articulately are essential. Students must complete the following to meet this requirement:

- ENG-1010 or ENG-101H College Composition I *
- Three (3) semester credits selected from the following subject areas (exclusive of developmental education, ENG-1000, and English as a Second Language courses):
  - American Sign Language
  - English
  - Foreign Languages
  - Speech Communication

  * Students who transfer in credits for ENG-1020 without having credit for ENG-1010 will have ENG-1010 waived, but the required 6 hours in Communication must be earned

Mathematics and Data Analysis (3 semester credits)
The ability to integrate numerical methods for use in today’s workforce is essential. Students must complete the following to complete this requirement:

- Three (3) semester credits of Mathematics at the 1000-level or higher.

Arts and Humanities/Social and Behavioral Sciences/Natural and Physical Sciences (6 semester credits)
The appreciation of the achievements of the Arts and Humanities, Social and Behavioral Sciences, Natural and Physical Sciences provides the ability to integrate learning within a complex global perspective; to gain an awareness of and respect for different cultures; to integrate ethical decision making in dealing responsibly with personal, family, and community issues; and to understand, analyze, and describe aspects of human behavior from diverse political, social, historical, and cultural perspectives. To meet this requirement, students must complete the following:

- Select six (6) semester credits from at least two of the following areas, with a minimum of 3 credits in each area:

  Natural and Physical Sciences
  - ANTH-1210
  - Biology
  - Chemistry
  - Earth Science
  - Physical Science
  - Physics
The following courses from non-science subject areas can be counted toward this requirement for the Associate of Technical Studies degree: DIET-1200, MT-1242, MT-1272, and MT-1280.

**Social and Behavioral Sciences**
- Anthropology: JMC-2220
- Economics: JMC-2410
- Education: JMC-2420
- Geography: JMC-2830
- JMC-1011: Political Science
- JMC-1410: Psychology
- JMC-1610: Sociology
- JMC-2000: Urban Studies
- JMC-2010: WST-2010
- JMC-2410: WST-2120
- JMC-2420: WST-2850

**Arts and Humanities**
- American Sign Language: MUS-2030
- ART-1010: MUS-2500
- ART-1040: MUS-2510
- ART-2020: MUS-2520
- ART-2030: MUS-2530
- DANC-1100: MUS-2540
- English 2000 level literature courses: MUS-2550
- Foreign Languages: Philosophy
- History: Religious Studies
- Humanities: Speech Communication
- JMC-1310: THEA-1010
- JMC-2040: THEA-2210
- JMC-2310: THEA-2220
- MUS-1010: WST-1510
- MUS-1020: WST-1520
- MUS-1030: WST-200H
- MUS-1040: WST-2030
- MUS-1050

- Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities requirement.

**Program Requirements**

The program leading to an Associate of Technical Study degree must have an area of concentration which is equivalent to thirty (30) semester credits in technical studies and clearly identifiable with a career objective.

Approximately one-half of each Associate of Technical Study program is devoted to non-technical studies.

**Cross-listed Courses**

Cross-listed courses are identical courses offered in two or more subject areas. They differ only in subject area code and course number. Credit may be earned once for cross-listed courses. If a course is cross-listed with another course that fills a general education or program requirement, either course meets the requirement. (See Appendix V for listing of Cross-listed courses.)

**Elective Graduation Requirements (15 semester credits)**

The remaining fifteen (15) semester credits to complete the required minimum total of sixty (60) semester credits may be chosen from 1000-level courses and above, exclusive of developmental coursework and physical education.

Courses taken to meet general education requirements in Communication, Mathematics and Data Analysis, Arts and Humanities, Social and Behavioral Sciences, or Natural and Physical Sciences cannot count towards fulfilling elective graduation requirements. Selection of elective semester credit hours of coursework shall be related to the occupational objective of the student of the basic components to further develop technical competencies.
Certificate Programs

Cuyahoga Community College grants Short-Term Certificates, Certificates of Proficiency, Degrees and Post-Degree Professional Certificates. These curriculum options allow for multiple entry and exit points and supports career laddering.

A student can start in a degree program by taking those courses identified in the Short-Term Certificate, which may be a subset of that degree. They are then ready to enter the job market with these new skills while continuing to pursue their next goal which could be a Certificate of Proficiency.

Once an associate degree is obtained, or if a student already has a bachelor’s degree, a Post-Degree Professional Certificate can be pursued.

Students petitioning for a certificate must petition to the Enrollment Center no later than 30 days before the end of the term in which they will complete the certificate requirements.

Short-Term Certificate
A Short-Term Certificate prepares students for entry-level positions in a specific career/employment situation.

Short-Term Certificate candidates at Cuyahoga Community College must be in good standing. A Short-Term Certificate will be granted to the student completing the following requirements:

1. The satisfactory completion of 9-29 semester credits at the 1000 level or higher as defined in the Short-Term Certificate.
2. The completion of no fewer than nine (9) credits 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 attempted at Cuyahoga Community College (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
4. Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.

One-Year Certificate of Proficiency
A Certificate of Proficiency program prepares the students for proficiency in an occupation field, after they successfully complete a prescribed education program.

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:

Degree and Certificate Program Requirements

1. The satisfactory completion of 30-37 semester credits at the 1000 level or higher as defined in the Certificate of Proficiency.
2. The completion of no fewer than nine (9) semester credits 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 attempted at Cuyahoga Community College (with exceptions as provided under College policies for repeating a course, Grade Forgiveness and Fresh Start).
4. Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.

Post-Degree Professional Certificate
The Post-Degree Professional Certificate is a 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.

Post-Degree Professional Certificate candidates at Cuyahoga Community College must be in good standing. A Post-Degree Professional Certificate will be granted to the student who has fulfilled the following requirements:

1. Completed an associate degree or higher from a regionally accredited post-secondary institution, or an equivalent degree or diploma from a post-secondary program certified and accredited by a state or nationally certified and accredited board.
2. The satisfactory completion of 20-37 semester credits as identified in the specific Post-Degree Professional Certificate.
3. The completion of no fewer than nine (9) semester credits defined in the Post-Degree Professional Certificate while in attendance at Cuyahoga Community College.
4. The accumulation of a minimum grade point average of 2.50.

Degree and Certificate Programs No Longer Offered by the College
The College may award a deleted degree or certificate program for up to two (2) years after its deletion. After that time limit, the student will no longer be able to petition for the deleted degree program.