



## 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:

#### Oral Communication

Demonstrate effective verbal and non-verbal communication for an intended audience that is clear, concise, organized, and uses standard rules for spoken language.

#### Written Communication

Produce writing for an intended audience that is clear and concise, uses standard rules for written language, and effectively organizes language, images and other symbols.

#### Critical Thinking

Analyze and synthesize ideas to make evidence-based decisions and find rational solutions to problems.

#### 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

Describe the interconnected global systems—economic, social, cultural, environmental, technological, political—that affect students' everyday lives, and articulate the importance of adapting to and participating in a rapidly-changing global society.

#### Cultural Sensitivity

Demonstrate sensitivity to the unique views and values of cultures, both within and beyond the United States.

#### 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.

### Associate of Arts Degree

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:

#### Comprehensive Graduation Requirements

The Associate of Arts 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 Arts 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.

#### 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-2830
Geography	Political Science
JMC-1011	Psychology
JMC-1410	Sociology
JMC-1610	Urban Studies
JMC-2000	WST-2010
JMC-2010	WST-2120
	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 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-2030	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 VI for listing of Cross-listed courses.)

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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:

**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.

**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-2830
Education	Political Science
Geography	Psychology
JMC-1011	Sociology
JMC-1410	Urban Studies
JMC-1610	WST-2010
JMC-2000	WST-2120
JMC-2010	WST-2850
JMC-2220	

\*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-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-1100
JMC-2310	THEA-2210
MUS-1010	THEA-2220
MUS-1020	WST-1510
MUS-1030	WST-1520
MUS-1040	WST-200H
MUS-1050	WST-2020

- Three (3) semester credits selected from the following subject areas/courses:

American Sign Language	JMC-2470
Art	Music
Dance	Philosophy
English 2000 level literature courses	Religious Studies
Foreign Languages	Speech Communication
History	Theatre Arts
Humanities	WST-1510
JMC-1310	WST-1520
JMC-2040	WST-200H
JMC-2310	WST-2020
	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 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 VI 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

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 Business 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).

#### 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.

## Degree and Certificate Program Requirements

### 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	JMC-2410
Economics	JMC-2420
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

#### Arts and Humanities

American Sign Language	JMC-2310
ART-1010	Literature courses
ART-1040	MUS-1010
ART-2020	MUS-1020
ART-2030	MUS-1030
DANC-1100	MUS-1040
English 2000 level	MUS-1050
Foreign Languages	MUS-2030
History	MUS-2500
Humanities	MUS-2510
JMC-1310	MUS-2520
JMC-2040	MUS-2530

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 "21<sup>st</sup> 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 VI 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).

**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

## Degree and Certificate Program Requirements

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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	JMC-2410
Economics	JMC-2420
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

### 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	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-2030
MUS-1050	

- 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 "21<sup>st</sup> 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 VI for listing of Cross-listed courses.)

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**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.

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**Associate of Technical Study Degree**

Cuyahoga Community College will grant an Associate of Technical Study degree to students in good standing upon completion of the following requirements:

**Comprehensive Graduation Requirements**

The Associate of Technical Study degree prepares students with the skills necessary to enter and compete effectively in today's workforce. It is awarded for the successful completion of an individually planned technical education program which contains an area of concentration formed either by an intra-institutional combination of courses from two or more different technical programs or by credit (maximum of 30 semester credit hours) awarded by the College for courses completed or training received at other institutions with which the College has entered into an articulation agreement.

1. Students must complete an application for admission to the ATS Program which includes an outline of specific coursework to be taken to earn the ATS degree.
2. Students must satisfactorily complete at least 60 semester credits (exclusive of physical education) at the 1000-level or higher.
3. Students must achieve 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).
4. Students must complete a minimum of 20 of the 60 semester credits at Cuyahoga Community College after the ATS application has been approved.
5. Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general education and program 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 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:

## Degree and Certificate Program Requirements

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### 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-2410
Economics	JMC-2420
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

### 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	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-2030
MUS-1050	

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

### 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.

### 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 VI for listing of Cross-listed courses.)

### 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:

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.

**NOTES**