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### Certificates and Degrees

Cuyahoga Community College (Tri-C®) 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 ladder.

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.

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 and then finally their associate degree.

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

Each certificate and degree program 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. 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.

### 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

Communicate in clear and concise terms, using standard English; effectively organize language, images and other symbols to produce meaning at a level which is appropriate

to the intended audience; speak and listen with intention as appropriate.

#### 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

Access, evaluate and use information from multiple sources in a variety of formats in order to meet information needs for a specific purpose.

#### 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, both within and beyond the United States; respectfully acknowledge the similarities and differences between groups; address the stereotypes and misconceptions that exist in society.

#### Civic Responsibility

Demonstrate an ethic of civic responsibility that balances the personal consequences of students' actions and inactions with the likely effects on the larger community.

### 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 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.

Courses in the following subject areas meet the general education requirements.

#### Communication

English  
Foreign Languages  
American Sign Language  
Speech Communication  
Journalism and Mass Communications.

Excludes ENG-1000 Using Grammar Effectively and developmental English, developmental speech, and English as a Second Language courses.

### Mathematics and Sciences

Biology  
Chemistry  
Earth Science  
Mathematics\*  
Physical Science  
Physics

\*Excludes developmental, special topics, and independent study/research (1800-1820/2800-2820)

### Arts and Humanities

American Sign Language  
Art  
Chinese  
Dance  
English 2000 level literature courses  
French  
German  
Humanities  
Italian  
Japanese  
Journalism and Mass Communications  
Latin  
Music  
Philosophy  
Religious Studies  
Russian  
Spanish  
Speech Communication  
Theatre Arts  
Women's Studies 1520, 200H, 2030

### Social and Behavioral Sciences

Anthropology  
Economics  
Education  
Geography  
History  
Political Science  
Psychology  
Social Science  
Sociology  
Urban Studies  
Women's Studies: 1510, 2010, 2120, and 2850.

See specific credit requirements in each of the general education areas for the each of the degrees the College offers later in this section as noted. (Associate of Arts, pp. 48-49, Associate of Science, pp. 49-50, Associate of Applied Business, pp. 50-51, Associate of Applied Science, pp. 51-52, Associate of Technical Studies, pp. 52-53). For specific programs in the applied degrees, see the program sequence for specific requirements to meet the general education 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 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). 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 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). Special Topics, Independent Study/Research, and Cooperative Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.
4. ENG-1010 College Composition I, or ENG-101H Honors College Composition I.
5. At least one 1000-level Mathematics course as specified by the certificate program.

### 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 *General Curriculum Information* section (pp. 55-5962).

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### 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. Students must satisfactorily complete at least 60 semester credits (exclusive of physical education) at the 1000-level or higher.
2. 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). Special Topics, Independent Study/Research, and Cooperative

Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.

3. Students must complete a minimum of 20 of the 60 semester credits at the 2000-level.
4. A minimum of 20 of the 60 semester credits must be completed at Cuyahoga Community College.

#### General Education Requirements

**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:

1. Six (6) semester credits in college-level English composition, to include ENG-1010 or ENG-101H College Composition I, and ENG-1020 or ENG-102H College Composition II. English composition courses must be taken during the first thirty (30) semester credit hours of college-level work.
2. An additional three (3) semester credits selected from the Communications subject areas listed on page 46 (excluding ENG-1000, developmental education and English as a Second Language courses).

**Mathematics and Sciences (10 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:

1. Ten (10) semester credits from the Mathematics and Science subject areas listed on page 47 (excluding developmental courses) to include:
  - a. Three (3) semester credits of Mathematics at the 1000-level or higher, excluding developmental, special topics, and independent study/research courses.
  - b. At least one science course with a related laboratory (excluding developmental courses).

**Arts and Humanities (10 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:

1. Ten (10) semester credits from the Arts and Humanities subject areas listed on page 47 (excluding developmental courses).
2. Courses from at least two different Arts and Humanities disciplines listed on page 47.

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## Degree and Certificate Program Requirements

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

**Social and Behavioral Sciences (10 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:

1. Ten (10) semester credits from the Social and Behavioral Science subject areas listed on page 47 (excluding developmental courses).
2. Courses from at least two different Social and Behavioral Science disciplines.

### 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. 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 may 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.

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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. Students must satisfactorily complete at least 60 semester credits (exclusive of physical education) at the 1000-level or higher.
2. 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). Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general education and elective graduation requirements unless otherwise noted.
3. Students must complete a minimum of 20 of the 60 semester credits at the 2000-level.
4. A minimum of 20 of the 60 semester credits must be completed at Cuyahoga Community College.

### General Education Requirements

**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:

1. Six (6) semester credits in college-level English composition, to include ENG-1010 or ENG-101H College Composition I, and ENG-1020 or ENG-102H College Composition II. English composition courses must be taken during the first thirty (30) semester credit hours of college-level work.
2. An additional three (3) semester credits selected from the Communication subject areas listed on page 46 (excluding ENG-1000, developmental education and English as a Second Language courses).

**Mathematics (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:

1. Six (6) semester credits at the MATH-1400 level or higher, excluding special topics and independent study/research courses.

**Sciences (8 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:

1. Eight (8) semester credits selected from the Science subject areas listed on page 47 (excluding Mathematics).
2. At least one science course with a related laboratory.

## Degree and Certificate Program Requirements

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**Arts and Humanities (10 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:

1. Ten (10) semester credits from the Arts and Humanities subject areas listed on page 47 (excluding developmental courses).
2. Courses from at least two different Arts and Humanities disciplines listed on page 47.
3. Courses that have been used to complete the Communication requirement, cannot count toward fulfilling the Arts and Humanities requirement.

**Social and Behavioral Sciences (10 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:

1. Ten (10) semester credits from the Social and Behavioral Science subject areas listed on page 47 (excluding developmental courses).
2. Courses from at least two different Social and Behavioral Science disciplines.

### 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 may 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.

## 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 90 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.

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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:

### 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. Students must satisfactorily complete at least sixty (60) semester credits (exclusive of physical education) at the 1000-level or higher.
2. 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). Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general education and program requirements unless otherwise noted.
3. Students must complete a minimum of 20 of the 60 semester credits at the 2000-level.
4. A minimum of 20 of the 60 semester credits must be completed at Cuyahoga Community College.

**General Education Requirements:** 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. 61-196).

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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:

1. Three (3) semester credits in college-level English composition, to include ENG-1010 or ENG-101H. ENG-1010 or ENG-101H College Composition I must be completed during the first thirty (30) semester credits of college-level coursework.
2. An additional three (3) semester credits selected from the Communication subject areas listed on page 46 (excluding ENG-1000, developmental education and English as a Second Language courses).

**Mathematics (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:

1. Three (3) semester credits of Mathematics at the 1000-level or higher, excluding developmental, special topics, and independent study/research courses.

### **Arts and Humanities/Social and Behavioral Sciences**

**(8 semester credits):** The appreciation of the achievements of the Arts and Humanities/Social and Behavioral 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:

1. Eight (8) semester credits selected from the Arts/Humanities subject areas and/or the Social and Behavioral Science subject areas listed on page 47 (excluding ENG-1000 and developmental courses).
2. Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities/Social and Behavioral Sciences requirements.

### **Program Requirements**

Program requirements encompass technical and non-technical courses as outlined by the specific technical program in the *Associate of Applied Degree Program Sequences* in this Catalog (pp. 61-196). Approximately one-half of each Associate of Applied Business program is devoted to non-technical studies. 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 may 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.

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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:

### **Comprehensive Graduation Requirements**

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

1. Students must satisfactorily complete at least sixty (60) semester credits (exclusive of physical education) at the 1000-level or higher.
2. 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). Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general education and program requirements unless otherwise noted.
3. Students must complete a minimum of 20 of the 60 semester credits at the 2000-level.
4. A minimum of 20 of the 60 semester credits must be completed at Cuyahoga Community College.

### **General Education Requirements**

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. 61-196).

## Degree and Certificate Program Requirements

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**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:

1. Three (3) semester credits in college-level English composition, to include ENG-1010 or ENG-101H. ENG-1010 or ENG-101H College Composition I must be completed during the first thirty (30) semester credits of college-level coursework.
2. An additional three (3) semester credits selected from the Communication subject areas listed on page 46 (excluding ENG-1000, developmental education and English as a Second Language courses).

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

1. Three (3) semester credits of Mathematics at the 1000 level or higher, excluding developmental, special topics, and independent study/research courses.

**Arts and Humanities/Social and Behavioral Sciences (8 semester credits):** The appreciation of the achievements of the Arts and Humanities/Social and Behavioral 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:

1. Eight (8) semester credits selected from the Arts/Humanities subject areas and/or the Social and Behavioral Science subject areas listed on page 47. (excluding ENG-1000 and developmental courses).
2. Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities/Social and Behavioral Sciences requirements.

### Program Requirements

Program requirements encompass technical and non-technical courses as outlined by the specific technical program in the *Associate of Applied Degree Program Sequences* in this Catalog. Approximately one-half of each Associate of Applied Science program is devoted to non-technical studies. Technical program majors should consist of twelve (12) to sixteen (16) semester credit hours 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 may 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.

## 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). Special Topics, Independent Study/Research and Cooperative Education courses may be applied to the general

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education and program requirements unless otherwise noted.

4. Students must complete a minimum of 20 of the 60 semester credits at Cuyahoga Community College after the ATS application has been approved.

### General Education 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:

1. Three (3) semester credits in college-level English composition, to include ENG-1010 or ENG-101H. ENG-1010 or 101H College Composition I must be completed during the first thirty (30) semester credits of college-level coursework.
2. An additional three (3) semester credits selected from the Communications subject areas listed on page 46 (excluding ENG-1000, developmental education and English as a Second Language courses).

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

1. Three (3) semester credits of Mathematics at the 1000-level or higher, excluding developmental, special topics, and independent study/research courses.

**Arts and Humanities/Social and Behavioral Sciences (8 semester credits):** The appreciation of the achievements of the Arts and Humanities/Social and Behavioral 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:

1. Eight (8) semester credits selected from the Arts/Humanities subject areas and/or the Social and Behavioral Science subject areas listed on page 47 (excluding ENG-1000 and developmental courses).
2. Courses that have been used to complete the Communication requirement cannot count toward fulfilling Arts and Humanities/Social and Behavioral Sciences requirements.

**Elective Graduation Requirements (13 semester credits):** The remaining thirteen (13) 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. Courses taken to meet general education requirements in Communication, Mathematics or Arts and Humanities/Social and Behavioral Sciences cannot

## Degree and Certificate Program Requirements

count towards fulfilling elective graduation requirements. Selection of elective semester credit hours of course work shall be related to the occupational objective of the student or 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 may 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.

## Degree Programs No Longer Offered by the College

The College may award a deleted degree 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.

## 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 no fewer than 20 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.

**NOTES**

