

Associate In Arts Degree

Fine Arts
Liberal Arts

Associate In Science Degree

Business Administration
Engineering
General Studies
General Studies: Special Education/
Developmental Disabilities
General Studies: Theatre Arts:
Performance Theatre
General Studies: Theatre Arts:
Technical Theatre
Science
Science: Computer Science
Social Sciences

The Associate in Arts (AA) and the Associate in Science (AS) degree programs are designed for students who plan to transfer to four-year colleges or universities. Courses in these programs parallel those required during the freshman and sophomore years of four-year Bachelor of Arts (BA) and Bachelor of Science (BS) curricula. The college publishes a basic guide to transfer programs that is available at campus admissions offices. Students planning to transfer should meet with a transfer counselor to plan a program of study that will meet the lower-division requirements of the college or university they have selected.

Fine Arts

The Fine Arts program is a skills-oriented curriculum with instruction in traditional and current techniques and approaches to art making. Students will be prepared to transfer to four-year degree programs or to begin careers in the fine arts industry. This program paves the way to four-year arts and design study for majors in art history, museum studies, and/or minors in studio arts. Employment opportunities for two-year graduates include assistant and trainee level positions in public or private arts and educational institutions such as arts and recreation centers, museums, and galleries, as well as work as a practicing fine artist.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

To meet minimum performance requirements in studio arts courses, students must demonstrate visual acuity, manual dexterity (fine motor control), and the capacity to understand and follow directions.

No prior training or portfolio of work is required for admission to the Fine Arts program, but students having prior experience and/or a portfolio may ask about receiving advanced placement and experiential course credit.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Arts (AA) degree normally takes four full-time semesters to complete. All ART courses are offered at the Visual Arts Center.

Students who want to audit a studio arts class must have the approval of the Director of the Visual Arts Center before registering.

ASSOCIATE IN ARTS DEGREE: FINE ARTS (529)

General Education Requirements (44 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 111-112	History of World Civilization I-II	(6)
MTH 158-240	College Algebra ¹ , Statistics ¹ or	
MTH 163-164	Precalculus I-II ¹	(6)
SPD 100	Principles of Public Speaking ³	(3)
STD	Orientation to Visual Arts Science with Lab ²	(1) (8)
PSY 201-202	Introduction to Psychology I-II	(6)
_____	Health/Physical Education/Recreation ²	(2)
_____	Intermediate Foreign Language Sequence ^{2, 4}	(6)

Program Requirements (19 Credits)

ART 121-122	Drawing I-II	(6)
ART 133	Visual Arts Foundation	(4)
ART 134	Three Dimensional Design	(3)
ART 201-202	History of Art I-II	(6)

Minimum Credits Required: 63

- 1 Placement test or prerequisite required.
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.
- 4 Prerequisite or first year proficiency required.

NOTES:
 Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.
 Students who plan to transfer to Old Dominion University should take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.
 In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.
 ART 297, Cooperative Education in Art, and ART 290, Internship in Art, may be taken as an elective or additional credit with division chair approval. However, it may not be taken as an approved studio elective.

TRANSFER

Liberal Arts

This program is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Arts (BA) degree program in the liberal arts. Four-year liberal arts graduates prepare for a wide variety of jobs and professions. Their studies emphasize communication, analytical, computational, and critical thinking skills, all of which provide flexibility in a changing job market. Liberal arts graduates become economists, teachers, foreign service officers, medical doctors, journalists, librarians, lawyers, and psychologists, among other possible professions.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Arts (AA) degree normally takes four full-time semesters to complete.

ASSOCIATE IN ARTS DEGREE: LIBERAL ARTS (648)

General Education Requirements (44 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 158-240	College Algebra ¹ , Statistics ¹	
	or	
MTH 163-164	Precalculus III ¹	(6)
SPD 100	Principles of Public Speaking ³	(3)
_____	Science with Lab ²	(8)
_____	Social Science Electives ²	(6)
_____	Health/Physical Education/Recreation ²	(2)
STD 100	Orientation ²	(1)
_____	Intermediate Foreign Language Sequence ²	(6)

Program Requirements (17 Credits)

_____	Beginning Foreign Language Sequence ²	(8)
_____	Humanities Electives ²	(6)
_____	Humanities/Social Science Elective ²	(3)

Minimum Credits Required: 61

- 1 Placement test or prerequisite required.*
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).*
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.*

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.
Students who plan to transfer to Old Dominion University should take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.
Students who already have language proficiency or have successfully completed two years of a foreign language in high school may petition for advanced placement. If you are placed into an advanced course in that foreign language (102, 203, or 204), you may substitute courses from the approved list of humanities and/or social sciences on page 164 for the four to eleven credits needed to complete the degree. When selecting a foreign language, students are required to choose full-year sequences.
In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

TRANSFER

Business Administration

This program is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree in business administration or accounting. Typical majors include accounting, economics, information systems, finance, management, and marketing.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: BUSINESS ADMINISTRATION (213)

General Education Requirements (41 Credits)

ECO 201-202	Principles of Economics I-II	(6)
ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 163	Precalculus I ¹	(3)
MTH 270	Applied Calculus ¹	(3)
SPD 100	Principles of Public Speaking ³	(3)
_____	Health/Physical Education/Recreation ²	(2)
_____	Humanities Elective ²	(3)
STD 100	Orientation ²	(1)
_____	Science with Lab ²	(8)

Program Requirements (19 Credits)

ACC 211-212	Principles of Accounting I-II	(6)
BUS _____	Probability and Statistics for Business and Economics	(3)
IST 117	Introduction to Microcomputer Software	(4)
_____	Approved Elective ⁴	(6)

Minimum Credits Required: 60

- 1 Placement test or prerequisite required.
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.
- 4 Consult with your academic advisor or counselor. Course must be approved by the appropriate division chair.

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.
 Students who plan to transfer to Old Dominion University should take ENG 210 in place of one HIS course, or the approved elective, and Decision Science or Information Systems majors may take IST 114 as the approved elective. Other electives must be approved by the appropriate division chair.
 In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

Engineering

This program is designed for students who plan to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree in engineering in one of several fields. The engineering program at TCC, leading to the two-year Associate in Science (AS) degree, includes general education courses and engineering courses which cover theoretical concepts and practical applications. Graduates with the baccalaureate degree find careers in aerospace, computer, environmental, civil, electrical/electronics, mechanical, mining/metallurgical, and nuclear engineering.

In addition to the college's general admission requirements, admission to the engineering curriculum requires satisfactory completion of the following high school units or their equivalents: four units of English; four units of mathematics (two units of algebra, one unit of plane geometry, one unit of advanced mathematics or trigonometry and solid geometry); one unit of laboratory science and one unit of social studies. All students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: ENGINEERING (831)

General Education Requirements (39 Credits)

CHM 111-112	College Chemistry I-II	(8)
ENG 111-112	College Composition I-II ¹	(6)
ENG 131	Technical Report Writing I ¹	(3)
HIS 101	History of Western Civilization I or	
HIS 111	History of World Civilization I or	
HIS 121	United States History I	(3)
MTH 173-174	Calculus with Analytic Geometry I-II ¹	(10)
STD 100	Orientation ²	(1)
—	Health/Physical Education/Recreation ²	(2)
—	Humanities Elective ²	(3)
—	Social Science Elective ²	(3)

Program Requirements (34 Credits)

EGR 120	Introduction to Engineering	(2)
EGR 125	Introduction to Engineering Methods (C++)	(4)
—	Approved Engineering Electives(see notes)	(9)
EGR 140	Engineering Mechanics-Statics	(3)
MTH 275	Multivariable Calculus and Linear Algebra	(4)
MTH 279	Ordinary Differential Equations	(4)
PHY 241-242	University Physics I-II	(8)

Minimum Credits Required: 73

1 Placement test or prerequisite required.

2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

Recommended courses for approved engineering electives are listed below (9 credits minimum for AS degree):

<i>Old Dominion University: Civil and Environmental</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 246 (3)</i>		<i>Total (9)</i>
<i>Old Dominion University: Computer</i>		
<i>EGR 271 (3); EGR 272 (3); EGR 277 (3); EGR 278 (2)</i>		<i>Total (11)</i>
<i>Old Dominion University: Electrical</i>		
<i>EGR 271 (3); EGR 272 (3); EGR 277 (3); EGR 278 (2)</i>		<i>Total (11)</i>
<i>Old Dominion University: Mechanical</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 246 (3); EGR 247 (1)</i>		<i>Total (10)</i>
<i>VA Tech: Civil and Environmental</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 246 (3)</i>		<i>Total (9)</i>
<i>VA Tech: Computer</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 271 (3); EGR 272 (3)</i>		<i>Total (12)</i>
<i>VA Tech: Electrical</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 271 (3); EGR 272 (3)</i>		<i>Total (12)</i>
<i>VA Tech: Mechanical</i>		
<i>EGR 110 (3); EGR 245 (3); EGR 246 (3)</i>		<i>Total (9)</i>

General Studies

The Associate in Science in General Studies degree offers the student an opportunity to combine courses that may lead directly to a career while also completing courses that meet lower division (freshman/sophomore level) general education requirements at a four-year college or university. It consists of 21 hours of major courses in any of the occupational-technical programs and 41 credits of general education courses. This program is not meant to insure the same ease of transferability as the other transfer degrees, but it offers the student an opportunity to earn a degree that combines technical, job-related courses with the general education courses needed for a four-year degree.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: GENERAL STUDIES (699)

General Education Requirements (41 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
SPD 100	Principles of Public Speaking ³	(3)
STD 100	Orientation ²	(1)
_____	Health/Physical Education/Recreation ²	(2)
_____	Humanities Elective ²	(3)
_____	Mathematics ¹	(6)
_____	Science with Lab ²	(8)
_____	Social Science Electives ²	(6)

Program Requirements (21 Credits)

_____	Approved Electives ⁴	(21)
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Minimum Credits Required:

62

- 1 Placement test or prerequisite required. MTH 103, MTH 121, and MTH 126 cannot be used to fulfill the mathematics requirement.
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.
- 4 Consult with your academic advisor or counselor. Courses must be approved by the appropriate division chair. The "Approved Electives" may be satisfied with any numbered Lab Science, Social Science, or Humanities electives listed under the A.A./A.S. degrees on page 164 of the 2001-2002 Catalog without an approved waiver/substitution required. All other courses not on the above lists must be approved by the appropriate division chair through the waiver/substitution process.

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.
 Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.
 In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

General Studies: Special Education/Developmental Disabilities

This program prepares students for a career working with children and adults with disabilities. Students may transfer to a four-year college or university to pursue a bachelor's degree. Some students may choose to pursue a career as a special education teacher. Among the majors the AS leads to are human services counseling, interdisciplinary studies, and psychology. Teacher certification may require additional course work, including a master's degree.

The program also prepares students for a variety of paraprofessional positions in schools and agencies that serve children and adults with disabilities. Examples of positions for which a graduate of the two-year program would qualify include: group home counselor, supported living counselor, job coach, vocational center technician, developmental technician, and teaching assistant in special education classrooms.

Students already in the field use the program to upgrade their skills and knowledge and create the opportunity for advancement.

Internships are available in a variety of work settings. They give students hands-on experience that will increase their employability in the field.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with the program advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: GENERAL STUDIES

Specialization: Special Education/Developmental Disabilities (699.49)

General Education Requirements (41 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
SPD 100	Principles of Public Speaking ³	(3)
STD 100	Orientation ²	(1)
_____	Health/Physical Education/Recreation ²	(2)
_____	Humanities Elective ²	(3)
_____	Mathematics ¹	(3)
_____	Science with Lab ²	(8)
_____	Social Science Electives ²	(6)
_____	Approved Elective ⁴	(3)

Program Requirements (22 Credits)

EDU 130	Introduction to Developmental Disabilities	(4)
EDU 135	Behavior Technology for Use with Developmental Disabilities	(4)
EDU 245	Teaching and Training of Language Skills for Disabled	(3)
EDU 247	Adult Independent Living and Vocational Skills for Disabled	(4)
EDU 254	Teaching Basic Academic Skills to Exceptional Children	(3)
EDU 290	Coordinated Internship in Education	(4)

Minimum Credits Required:

63

¹ Placement test or prerequisite required. MTH 103, MTH 121, and MTH 126 cannot be used to fulfill the mathematics requirement.

² Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).

³ Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.

⁴ Consult with your academic advisor or counselor. Courses must be approved by the appropriate division chair.

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.

Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

COLLEGE/UNIVERSITY TRANSFER

**General Studies:
Theatre Arts: Performance
Theatre**

The Performance Theatre specialization is designed to provide opportunities for those students interested in pursuing a bachelor's degree in performance. This specialization will support the existing productions at the Chesapeake and Virginia Beach campuses, as well as provide an opportunity to add performances at the TCC Roper Performing Arts Theater at the Norfolk campus.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: GENERAL STUDIES

**Specialization: Performance Theatre (699.51)
General Education Requirements (35 Credits)**

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 152	Math for Liberal Arts ¹	(3)
MTH 240	Statistics ¹	(3)
SPD 100	Principles of Public Speaking	(3)
STD 100	Orientation ²	(1)
_____	Health/Physical Education/Recreation	(2)
_____	Science with Lab ²	(8)
_____	Social Science Elective ²	(3)

Program Requirements (27 Credits)

SPD 111	Voice and Diction I	(3)
SPD 130	Introduction to the Theatre	(3)
SPD 131-132	Acting I-II	(6)
SPD 135	Stage Movement	(3)
SPD 231 or 232	History of Theatre I or II or Approved theatre elective	(3)
SPD 233-234	Rehearsal and Performance I-II	(6)
SPD 241	Introduction to Directing I	(3)

Minimum Credits Required: 62

¹ Placement test or prerequisite required.

² Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.

Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

**General Studies: Theatre Arts:
Technical Theatre**

The Technical Theatre specialization is designed to provide training for students interested in working in theatre production in such areas as lighting and sound, set design, and costume and make-up. This program will train students for immediate employment or to transfer to a bachelor's degree program in theatre. Students will have an opportunity to work in local theaters while taking courses at TCC. This specialization will be offered primarily at the Norfolk campus due to the proximity to area theaters.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor and select electives that will meet the requirements of the college or university which they plan to attend. The Associates in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: GENERAL STUDIES

Specialization: Technical Theatre (699.52)

General Education Requirements (35 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History III	(6)
MTH 152	Math for Liberal Arts ¹	(3)
MTH 240	Statistics ¹	(3)
SPD 100	Principles of Public Speaking	(3)
STD 100	Orientation ²	(1)
_____	Health/Physical Education/Recreation	(2)
_____	Science with Lab ²	(8)
_____	Social Science Elective ²	(3)

Program Requirements (26 Credits)

SPD 130	Introduction to the Theatre	(3)
SPD 136	Theatre Workshop I ³	(8)
SPD _____	Lighting and Sound	(3)
SPD _____	Costume and Make-Up	(3)
SPD 231 or 232	History of Theatre I or II or Approved theatre elective	(3)
SPD 240	Basic Set Design	(3)
SPD _____	Production Stage Management	(3)

Minimum Credits Required:

61

¹ Placement test or prerequisite required.

² Eligible courses are listed on page XXX. See your academic advisor or counselor to choose the appropriate course(s).

³ May be repeated for credit.

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.

Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

Science

This program prepares students to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree in science. Among the majors the AS in science leads to are biology, chemistry, dental hygiene, forestry, general science, geophysical science, mathematics, medical technology, nuclear medicine, nursing, pharmacy, and physics. The program also prepares students for medical, dental, and veterinary studies.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: SCIENCE (880)

General Education Requirements (44 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 163-164	Precalculus I-II ¹	(6)
SPD 100	Principles of Public Speaking ³	(3)
STD 100	Orientation ²	(1)
—	Health/Physical Education/Recreation ²	(2)
—	Humanities Electives ²	(6)
—	Science with Lab (sequence required) ²	(8)
—	Social Science Electives ²	(6)

Program Requirements (16 Credits)

—	Science with Lab (sequence required) ²	(8)
—	Electives	(8)

Minimum Credits Required: 60

- 1 Placement test or prerequisite required.
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.

NOTES:

Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

Curriculum Options/Recommendations: Course requirements differ from school to school and major to major. Investigate the requirements of transfer institutions before choosing mathematics courses, laboratory sciences, and electives. Consult a transfer counselor or academic advisor to plan your program.

Biology/Pharmacy/Forestry/General Science: Students should take MTH 163-164 and take a third laboratory science that is appropriate to their curriculum for the eight elective credits. Some colleges and universities require calculus for their biology and pharmacy majors. Students should check college catalogs and transfer guides to determine mathematics and laboratory science requirements.

Chemistry/Physics/Mathematics/Geophysical Sciences: Students should take MTH 173, 174, 275, and 279 to insure junior-level status at the transfer institution. Mathematics requirements are quite varied at transfer institutions. Students should examine the catalog requirements of the senior institutions to which they intend to transfer.

Preparation for Medical, Dental, and Veterinary Studies: Students should take MTH 163-164 and at least one semester of calculus (MTH 173). Biology (BIO 101-102), Chemistry (CHM 111-112), Organic Chemistry (CHM 241-242), and Physics (PHY 201-202) are the introductory level laboratory sciences generally completed at the freshman/sophomore level.

Health Science Majors (Dental Hygiene, Nursing, Nuclear Medicine, Medical Technology): Students should complete MTH 163-240 for most baccalaureate health science majors. Students should check college catalogs and transfer guides to determine appropriate mathematics and laboratory science requirements. A waiver/substitution must be approved by the appropriate division chair in order to substitute MTH 240 for MTH 164.

Science: Computer Science

The Associate in Science degree with a specialization in Computer Science is designed for students who plan to transfer to a four-year college or university to pursue a baccalaureate degree. This degree meets the needs of students seeking teacher certification in secondary mathematics or computer science.

In addition to the college's general admission requirements, students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: SCIENCE

Specialization: Computer Science (880.01)

General Education Requirements (45 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 173-174	Calculus with Analytic Geometry I-II ¹	(10)
SPD 100	Principles of Public Speaking ³	(3)
STD 100	Orientation ²	(1)
_____	Health/Physical Education/Recreation ²	(2)
_____	Humanities Elective ²	(3)
_____	Science with Lab (sequence required) ²	(8)
_____	Social Science Electives ²	(6)

Program Requirements (17 Credits)

CSC 110	Introduction to Computing	(3)
CSC 201	Computer Science I	(4)
CSC 205	Computer Organization	(3)
CSC 210	Programming with C++	(4)
CSC 215	Advanced Computer Organization	(3)

Minimum Credits Required: 62

¹ Placement test or prerequisite required.

² Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).

³ Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.

NOTES:

Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.

Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.

The CSC courses are offered exclusively at the Virginia Beach Campus.

In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.

COLLEGE/UNIVERSITY TRANSFER

Social Sciences

This degree is designed for students who plan to transfer to a four-year college or university to pursue a baccalaureate degree in one of the social sciences. It also prepares students for some teacher certification programs.

In addition to the college's general admission requirements students are required to complete Student Assessment Program (placement) tests in reading, composition, and mathematics. The college has a required developmental program for students who need to remedy deficiencies in these areas.

Students need to consult with a transfer counselor or academic advisor to plan programs and select electives that will meet the requirements of the college or university which they plan to attend. The Associate in Science (AS) degree normally takes four full-time semesters to complete.

ASSOCIATE IN SCIENCE DEGREE: SOCIAL SCIENCES (882)

General Education Requirements (38 Credits)

ENG 111-112	College Composition I-II ¹	(6)
HIS 101-102	History of Western Civilization I-II or	
HIS 111-112	History of World Civilization I-II or	
HIS 121-122	United States History I-II	(6)
MTH 158-240	College Algebra ¹ , Statistics ¹	
	or	
MTH 163-164	Precalculus I-II ¹	(6)
SPD 100	Principles of Public Speaking ³	(3)
_____	Health/Physical Education/Recreation ²	(2)
_____	Humanities Electives ²	(6)
STD 100	Orientation ²	(1)
_____	Science with Lab ²	(8)

Program Requirements (24 Credits)

_____	Social Science Electives ²	(12)
_____	Humanities/Social Science Electives ²	(9)
_____	Elective	(3)

Minimum Credits Required: 62

- 1 Placement test or prerequisite required.
- 2 Eligible courses are listed on page 164. See your academic advisor or counselor to choose the appropriate course(s).
- 3 Students may substitute SPD 105 for SPD 100. Consult transfer institution to insure that the substitution is appropriate for your transfer program.

NOTES:
 Investigate the requirements of transfer institutions before choosing electives, and consult a transfer counselor or academic advisor to plan your program.
 Students who plan to transfer to Old Dominion University may need to take ENG 210 to fulfill that university's composition requirement. For further information, see a transfer counselor.
 In order to graduate with the associate's degree, you must meet the college's computer competency requirement. Consult your academic advisor or counselor to determine how to satisfy this requirement.