

# transfer education

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## college/university transfer programs

### Associate of Arts Degree

Liberal Arts

### Associate of Science Degree

Business Administration

Engineering

General Studies

Science

Computer Science

Social Sciences

The Associate of Arts (AA) and the Associate of 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 their program curricula and investigate the requirements of transfer institutions before choosing electives.

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

In order to graduate with the associate degree, students must meet the college's computer competency requirement and successfully complete a course classified as "international." (Eligible international courses are identified in the TCC Schedule of Classes booklet each term.)

## » liberal arts

The Associate of Arts degree 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 programs prepare graduates for a wide variety of jobs in business, the arts, education, medical and legal professions, and in social and public service occupations. Liberal studies emphasize language, literature, philosophy, mathematics, science, social science and analytical and critical thinking skills, all of which prepare students for lifelong learning and social, cultural, and technological change.

Courses required for the Liberal Arts degree are available on all four campuses.

### Associate of Arts Degree: Liberal Arts (648)

#### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 158	College Algebra (or MTH 163)	3	Placement
SDV 100	College Success Skills	1	
	Beginning Foreign Language Sequence <sup>1</sup>	4	
	Humanities Elective <sup>1</sup>	3	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>18</b>	

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## Semester 2

Course No.	Course Title	Credits	Prerequisite
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 240	Statistics (or MTH 164)	3	MTH 158 or MTH 163
SPD 100	Principles of Public Speaking <sup>2</sup>	3	
	Beginning Foreign Language Sequence <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>17</b>	

## Semester 3

Course No.	Course Title	Credits	Prerequisite
	Humanities/Social Science Elective <sup>1</sup>	3	
	Intermediate Foreign Language Sequence <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>13</b>	

## Semester 4

Course No.	Course Title	Credits	Prerequisite
	Humanities/Social Science Elective <sup>1</sup>	3	
	Intermediate Foreign Language Sequence <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>13</b>	
<b>Total Minimum Credits</b>		<b>61</b>	

1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s).

2 Students may substitute SPD 110 for SPD 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.

3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

**Note:**

Students who already have foreign language proficiency or have successfully completed two years of a foreign language in high school may petition for advanced placement. Students placed into an advanced course in foreign language (102, 203, or 204), may substitute courses from the approved list of humanities and/or social sciences on page 64 for the language credits needed to complete the degree. When selecting a foreign language, students are required to choose full-year sequences.

## »» business administration

The Associate of Science degree program in Business Administration 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. Typical majors include accounting, economics, information systems, international business, finance, management, marketing, and public administration.

Courses required for the Business Administration degree are available on all four campuses.

### Associate of Science Degree: Business Administration (213)

#### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
ITE 115	Introduction to Computer Applications and Concepts	4	
MTH 163	Precalculus I	3	Placement
SDV 100	College Success Skills	1	
	Science with Lab <sup>1</sup>	4	
<b>Semester Total</b>		<b>18</b>	

#### Semester 2

Course No.	Course Title	Credits	Prerequisite
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 270	Applied Calculus	3	MTH 163 or MTH 166
	Science with Lab <sup>1</sup>	4	
<b>Semester Total</b>		<b>13</b>	

#### Semester 3

Course No.	Course Title	Credits	Prerequisite
ACC 211	Principles of Accounting I	3	
ECO 201	Principles of Macroeconomics	3	
	Humanities Elective <sup>1</sup>	3	
	Health/Physical Education <sup>1</sup>	1	
	Approved Elective <sup>2</sup>	3	
<b>Semester Total</b>		<b>13</b>	

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## Semester 4

Course No.	Course Title	Credits	Prerequisite
ACC 212	Principles of Accounting II	3	ACC 211
BUS 216	Probability and Statistics for Business and Economics	3	MTH 163 and ITE 115
ECO 202	Principles of Microeconomics	3	
	Humanities Elective <sup>1</sup>	3	
	Health/Physical Education <sup>1</sup>	1	
	Approved Elective <sup>2</sup>	3	
<b>Semester Total</b>		<b>16</b>	
<b>Total Minimum Credits</b>		<b>60</b>	

- 1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s).
- 2 The following courses are recommended to satisfy the approved elective: BUS 100, ENG 131, ITP 100, ITP 132, PLS 241, SPD 100 or SPD 110.
- 3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

## » engineering

The Associate of Science degree program in Engineering 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 two-year engineering degree program includes general education 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.

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.

Engineering courses required for the transfer engineering degree are available only at the Virginia Beach Campus.

## Associate of Science Degree: Engineering (831)

### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
CHM 111	College Chemistry I	4	
EGR 120	Introduction to Engineering	2	MTH 164, MTH 166 or Placement into MTH 173
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 173	Calculus with Analytic Geometry I	5	Placement
SDV 101	Orientation to Engr and Technologies 1		
<b>Semester Total</b>		<b>18</b>	

### Semester 2

Course No.	Course Title	Credits	Prerequisite
CHM 112	College Chemistry II	4	CHM 111
EGR 110	Engineering Graphics	3	MTH 164, MTH 166 or Placement into MTH 173
ENG 112	College Composition II <sup>4</sup>	3	ENG 111
MTH 174	Calculus with Analytic Geometry II	4	MTH 173
	Approved Engineering Elective <sup>2</sup>	3	
<b>Semester Total</b>		<b>17</b>	

### Semester 3

Course No.	Course Title	Credits	Prerequisite
EGR 125	Introduction to Engineering Methods (C++)	4	EGR 110
MTH 279	Ordinary Differential Equations	4	MTH 174
PHY 241	University Physics I	4	MTH 173
	Approved Engineering Elective <sup>2</sup>	3	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>18</b>	

### Semester 4

Course No.	Course Title	Credits	Prerequisite
	Humanities Electives <sup>1</sup>	6	
MTH 277	Vector Calculus	4	MTH 174 or equivalent
PHY 242	University Physics II	4	PHY 241
	Approved Engineering Elective <sup>2</sup>	3	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>18</b>	
<b>Total Minimum Credits</b>		<b>71</b>	

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1 Eligible courses are listed page 64 in the 2008-2009 catalog. Students should consult a faculty advisor or counselor to choose the appropriate course(s).

2 Recommended courses for approved engineering electives:

Old Dominion University: Civil	EGR 140 (3); EGR 245 (3); EGR 246 (3)	Total (9)
Old Dominion University: Computer	EGR 260 (3); EGR 261 (3); EGR 262 (2); EGR 270 (4);	Total (12)
Old Dominion University: Electrical	EGR 260 (3); EGR 261 (3); EGR 262 (2); EGR 270 (4)	Total (12)
Old Dominion University: Environmental	EGR 140(3); BIO 101 (4); EGR 246 (3)	Total (10)
Old Dominion University: Mechanical	EGR 140 (3); EGR 245 (3); EGR 246 (3); EGR 247 (1)	Total (10)
Virginia Tech: Civil and Environmental	EGR 140 (3); EGR 245 (3); EGR 246 (3)	Total (9)
Virginia Tech: Computer	EGR 140 (3); EGR 260 (3); EGR 261 (3)	Total (9)
Virginia Tech: Electrical	EGR 140 (3); EGR 260 (3); EGR 261 (3)	Total (9)
Virginia Tech: Mechanical	EGR 140 (3); EGR 245 (3); EGR 246 (3)	Total (9)

3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

4 Students who plan to transfer to Old Dominion University are advised to take ENG 131 in place of ENG 112.

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## » general studies

The Associate of Science degree in General Studies is a flexible transfer degree that offers the student an opportunity to combine courses to meet specific career goals as well as lower level general education requirements at a four-year college or university. The program consists of 44 credits of general education with 18 additional hours that may be selected in consultation with an advisor or counselor to ensure they are appropriate to meet the student's transfer and educational goals.

This program is not meant to insure the same ease of transferability as the other transfer degrees, but through articulation agreements, students may use a limited number of courses from selected applied programs to transfer to corresponding professional programs at four-year colleges and universities.

Students can maximize the transferability of the General Studies degree by selecting courses from those listed under General Education Requirements on page 64 .

Note: Through an articulation agreement with Old Dominion University, students enrolled in the Developmental Disabilities certificate program who wish to pursue a baccalaureate degree in Special Education can follow a prescribed academic plan for the AS degree in General Studies that includes a limited number of courses from the certificate program. For additional information, contact Gerald Mayhew at 822-5220 or a transfer counselor at the Chesapeake Campus.

Courses required for the General Studies degree are available on all four campuses.

## Associate of Science Degree: General Studies (699)

### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>4</sup>	3	Placement into ENG 111
SDV 100	College Success Skills	1	
	Mathematics <sup>1</sup>	3	Placement
	Social Science Elective <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>18</b>	

### Semester 2

Course No.	Course Title	Credits	Prerequisite
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>4</sup>	3	Placement into ENG 111
	Mathematics <sup>1</sup>	3	Placement
	Social Science Elective <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>17</b>	

### Semester 3

Course No.	Course Title	Credits	Prerequisite
SPD 100	Principles of Public Speaking <sup>2</sup>	3	
	Approved Elective <sup>3</sup>	3	
	Approved Elective <sup>3</sup>	3	
	Approved Elective <sup>3</sup>	3	
	Humanities Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>15</b>	

### Semester 4

Course No.	Course Title	Credits	Prerequisite
	Approved Elective <sup>3</sup>	3	
	Approved Elective <sup>3</sup>	3	
	Approved Elective <sup>3</sup>	3	
	Humanities Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>12</b>	
<b>Total Minimum Credits</b>		<b>62</b>	

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- 1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s). MTH 103, MTH 121, and MTH 126 cannot be used to fulfill the mathematics requirement.
- 2 Students may substitute SPD 110 for SPD 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.
- 3 The "Approved Electives" may be satisfied with any Lab Science, Social Science, or Humanities electives listed on page 64 of the 2008-2009 catalog without an approved waiver/substitution required.
- 4 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

## » science

The Associate of Science degree program in Science prepares students to transfer to a four-year college or university to pursue a Bachelor of Science (BS) degree in science and related fields: 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.

Courses required for the Science degree are available on all four campuses.

### Associate of Science Degree: Science (880)

#### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 163	Precalculus I	3	Placement
SDV 100	College Success Skills	1	
	Science with Lab <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>15</b>	

#### Semester 2

Course No.	Course Title	Credits	Prerequisite
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 164	Precalculus II	3	MTH 163
	Science with Lab <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>14</b>	

#### Semester 3

Course No.	Course Title	Credits	Prerequisite
SPD 100	Principles of Public Speaking <sup>2</sup>	3	
	Elective <sup>1</sup>	4	
	Humanities Elective <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>17</b>	

#### Semester 4

Course No.	Course Title	Credits	Prerequisite
	Elective <sup>1</sup>	4	
	Humanities Elective <sup>1</sup>	3	
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>14</b>	
<b>Total Minimum Credits</b>		<b>60</b>	

- 1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s). Sequenced lab courses required in natural and physical sciences.
- 2 Students may substitute SPD 110 for SPD 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.
- 3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

Curriculum Options/Recommendations: Course requirements differ from college to college and major to major. Students should consult a transfer counselor or academic advisor to plan a course of study and investigate the requirements of transfer institutions before choosing mathematics courses, laboratory sciences, and electives.

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, 277, and 279 to ensure 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 201-201) 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 academic dean in order to substitute MTH 240 for MTH 164.

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## Computer Science

The Associate of Science degree in Science 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 in computer science. This degree program also meets the needs of students seeking teacher certification in secondary mathematics or computer science.

CSC courses required for the computer science specialization are offered exclusively at the Virginia Beach Campus.

## Associate of Science Degree: Science Specialization: Computer Science (880.01)

### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
CSC 110	Introduction to Computing	3	
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 173	Calculus with Analytic Geometry	5	Placement
SDV 100	College Success Skills	1	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>16</b>	

### Semester 2

Course No.	Course Title	Credits	Prerequisite
CSC 201	Computer Science I	4	CSC 110
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 174	Calculus with Analytic Geometry II	4	MTH 173
<b>Semester Total</b>		<b>14</b>	

### Semester 3

Course No.	Course Title	Credits	Prerequisite
CSC 205	Computer Organization	3	CSC 110
CSC 210	Programming with C++	4	CSC 201
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
	Health/Physical Education <sup>1</sup>	1	
<b>Semester Total</b>		<b>15</b>	

### Semester 4

Course No.	Course Title	Credits	Prerequisite
CSC 215	Advanced Computer Organization	3	CSC 205
	Humanities Electives <sup>1</sup>	6	
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>16</b>	
<b>Total Minimum Credits</b>		<b>61</b>	

- 1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s). Sequenced lab courses required in natural and physical sciences.
- 2 Students may substitute SPD 110 for SPD 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.
- 3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.

## » social sciences

The Associate of Science degree in Social Sciences 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 or behavioral sciences. Social Sciences include academic disciplines such as anthropology, economics, geography, history, political science, sociology, and psychology. The AS in Social Sciences also prepares students for some teacher certification programs.

Courses required for the Social Sciences degree are available on all four campuses.

## Associate of Science Degree: Social Sciences (882)

### Semester 1 (Based on a Fall Semester start)

Course No.	Course Title	Credits	Prerequisite
ENG 111	College Composition I	3	Placement
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 158	College Algebra (or MTH 163)	3	Placement
SDV 100	College Success Skills	1	
	Science with Lab <sup>1</sup>	4	
	Health/Physical Education <sup>1</sup>	2	
<b>Semester Total</b>		<b>16</b>	

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## Semester 2

Course No.	Course Title	Credits	Prerequisite
ENG 112	College Composition II	3	ENG 111
HIS	History Elective <sup>3</sup>	3	Placement into ENG 111
MTH 240	Statistics (or MTH 164)	3	MTH 158 or MTH 163
	Science with Lab <sup>1</sup>	4	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>16</b>	

## Semester 3

Course No.	Course Title	Credits	Prerequisite
SPD 100	Principles of Public Speaking <sup>2</sup>	3	
	Social Science Elective <sup>1</sup>	3	
	Social Science Elective <sup>1</sup>	3	
	Humanities Elective <sup>1</sup>	3	
	Humanities or Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>15</b>	

## Semester 4

Course No.	Course Title	Credits	Prerequisite
	Humanities Elective <sup>1</sup>	3	
	Humanities or Social Science Elective <sup>1</sup>	3	
	Humanities or Social Science Elective <sup>1</sup>	3	
	Social Science Elective <sup>1</sup>	3	
	Social Science Elective <sup>1</sup>	3	
<b>Semester Total</b>		<b>15</b>	
<b>Total Minimum Credits</b>		<b>62</b>	

- 1 Eligible courses are listed on page 64 in the 2008-2009 catalog. Students should consult an academic advisor or counselor to choose the appropriate course(s).
- 2 Students may substitute SPD 110 for SPD 100. Consult transfer institution to ensure that the substitution is appropriate for intended transfer program.
- 3 Students may select any of the following courses to meet this requirement: HIS 101, 102, 111, 112, 121, or 122.