Students earning the AS, AA, or AA&S (or university parallel) degree from a Virginia Community College automatically satisfy the lower division general education requirements. Courses marked with * require a grade of C or better to transfer, even with the AS degree. The remaining lower division courses are automatically satisfied by the AS (including foreign language), regardless of the grade earned. Additionally, courses in which a grade of "C-" or below were earned will not transfer. Therefore Community College degree holders may require additional credits to meet the 120 credit hour graduation minimum.  

### Entrance Writing Sample Placement Test:  

### Entrance Math Placement Test:  

### LOWER DIVISION GENERAL EDUCATION REQUIREMENTS  

#### A. Skills

<table>
<thead>
<tr>
<th>Written Communication–6 hours</th>
<th>grade/credit</th>
<th>VCCS transfer equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110C English Composition I</td>
<td>3</td>
<td>AS/ENG 111</td>
</tr>
<tr>
<td>ENGL 211C, 231C</td>
<td>3</td>
<td>AS/ENG 210, 115, or 131</td>
</tr>
</tbody>
</table>

**Oral Communication–3 hours** satisfied in the major by Phys 499W

**Mathematics–3 hours**

MATH 162M satisfied in the major

**Language and Culture –0-6 hours**

BS students' competence must be at the 102 or 111 level. Consult transfer guide for all equivalencies.

**Information Literacy–3 hours**

CS 120G or CS 121G

**B. Ways of Knowing**

**Human Creativity–3 hours**

ARTH 121A, ARTS 122A, DANC 185A, MUSC 264A, THEA 241A, COMM/THEA 270A

**History–3 hours**

HIST 100H, 101H, 102H, 103H, 104H, 105H

**Literature–3 hours**

ENGL 112L, 114L, FLET 100L

**Philosophy and Ethics–3 hours**

PHIL 110P, 120P, 140P, 230E, 268

**Natural Science and Technology–8 hours** Met in the major

**Human Behavior–3 hours**


**The Impact of Technology–3 hours**


### Physics Course Requirements grade/credit

- **MATH 211 Calculus I** 4
- **MATH 212 Calculus II** 4
- **MATH 312 Calculus III** 4
- **MATH 307 Differential Equations** 3
- **MATH 316 or 401 or 421 or 422** 3
- **CHEM 121N/122N Chemistry I** 4
- **CHEM 123N/124N Chemistry II** 4
- **CS 150 Intro to Programming** 4
- **PHYS 231N University Physics I** 4
- **PHYS 232N University Physics II** 4
- **PHYS 323 Modern Physics** 3
- **PHYS 319 Analytical Mechanics** 3
- **PHYS 320 Electricity & Magnetism** 3
- **PHYS 352 Intro. Quantum Mechanics** 3
- **PHYS 303 Laboratory** 3
- **PHYS 413 Methods of Exp. Physics** 3
- **PHYS 454 Thermal Physics** 3

One course from:

- **PHYS 420, 453 or 456** 3
- **PHYS 499W Senior Thesis** 3
- **Approved Physics Seminar** 1

Two courses from:

- **PHYS 311, 313, 332, 350, 411, 415, 416, 417 with at least three** 3

### Upper Division General Education

Satisfied by MBA CORE Curriculum:

MBA CORE courses taken Senior Year – all must be B or better for admittance to MBA program

| ACCT 601 Accounting for Managers | 3 |
| DSCI 600 Foundations of Statistics | 3 |
| ECON 604 Mang. Econ & Trade | 3 |
| FIN 605 Financial Management | 3 |
| MGMT 602 Organizational Mang. | 3 |
| MKTG 603 Market Management | 3 |

For Physics degree only: **120 HOURS AND A 2.0 GRADE POINT AVERAGE IN THE MAJOR, MINOR, AND OVERALL ARE NEEDED TO GRADUATE.**

### Additional Graduation Requirements:

- Passage of Exit Writing Exam
- Application for Graduation
- Passage of Physics Exit Exam
- Senior Assessment