ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Computer Science ADVANCE Program Milestones

ADVANCE Milestone Requirements: All ADVANCE students must adhere to the following requirements. For Milestones #1-#3, failure to meet these milestones will prevent a student from matriculating to Mason and/or result in termination from ADVANCE. For Milestones #4-#7, failure to meet these milestones may delay matriculation to Mason.

1. Students must complete their NOVA degree within 4 years of being admitted into ADVANCE. Students are <u>highly encouraged</u> to be continuously enrolled at NOVA/Mason to support progress towards degree completion.

2. Students must maintain a minimum 2.5 cumulative GPA at NOVA and must have a minimum 2.5 GPA upon matriculation to Mason.

3. Students who wish to enroll at Mason for the fall semester must apply for NOVA spring graduation by March 1 or summer graduation by June 1. Students who wish to enroll at Mason for the spring semester must apply for NOVA fall graduation by October 1.

4. Students must begin developmental coursework no later than the first semester in ADVANCE at NOVA.

5. Students must take first college-level MTH course and ENG 111 in the semester immediately following the completion of any MDE or EDE courses (excluding summer).

6. In the first 30 credits, students must complete ENG 111 and ENG 112 with a C or better.

7. Students must complete a Mason Core Quantitative Reasoning course equivalent with a C or better no later than one semester before NOVA graduation. Refer to your pathway to select the appropriate MTH course(s).

Computer Science Admission Requirements: All transfer applicants must have earned at a least B in CSC 222 or CSC 223, <u>AND</u> must have earned at least a B in one of the following: MTH 263, MTH 264, or MTH 288.

| | NOVA DEGREE REQUIREMENT | Credits | Courses | MASON TRANSFER EQUIVALENT | MASON CORE/DEGREE EQUIVALENT |
|----|----------------------------|---------|--|--|------------------------------------|
| 1 | SDV Course | 1 | SDV 100 College Success Skills OR SDV 101 Orientation to XXX | UNIV 100 | General Elective |
| 2 | ENG 111 | 3 | ENG 111 College Composition I ¹ | ENGH 101 | Written Comm |
| 3 | CSC 221 | 3 | CSC 221 Introduction to Problem Solving and Programming | CS XXX | General Elective |
| 4 | HIS Elective | 3 | HIS 101 Western Civilizations Pre-1600 CE OR HIS 102 Western Civilizations Post-1600 CE OR HIS 112 World Civilizations Post-1500 CE (recommended) | HIST 101 HIST 102 HIST 125 | Global History |
| 5 | MTH 167 | 5 | MTH 167 PreCalculus with Trigonometry ² | MATH 105 | General Elective |
| 6 | CSC 222 | 4 | CSC 222 Object Oriented Programming | CS 112 | Major |
| 7 | ENG 112 | 3 | ENG 112 College Composition II ¹ | ENGH XXX | General Elective |
| 8 | Humanities/Fine Arts #1 | 3 | ART 100 Art Appreciation OR ART 101 History of Art: Prehistoric to Gothic OR ART 102 History of Art: Renaissance to Modern OR CST 130 Introduction to Theatre OR CST 151 Film Appreciation I OR MUS 121 Music in Society | ARTH 101 ARTH 200 ARTH 201 THR 101 ENGH L372 MUSI 101 | Arts |
| 9 | MTH 263 | 4 | MTH 263 Calculus I | MATH 113 | Quantitative |
| 10 | CSC 223 | 4 | CSC 223 Data Structures and Analysis of Algorithms | CS 211 | Major |
| 11 | MTH 288 OR CSC 208 | 3 | MTH 288 Discrete Mathematics OR CSC 208 Introduction to Discrete Structures | MATH 125 | Major |
| 12 | MTH 264 | 4 | MTH 264 Calculus II | MATH 114 | Major |
| 13 | Science Course #1 | 4 | See footnote #3 when selecting from the following: BIO 101 General Biology OR CHM 111 General Chemistry OR PHY 241 University Physics OR GOL 105 Physical Geology | BIOL 103/105 CHEM 211-213 PHY 160-161 GEOL 101/103 | Natural Science |

| | | | ENG 225 Reading Literature: Culture and Ideas OR ENG 245 British Literature OR | | |
|---------------------------------|---|--|---|-------------------------------|---|
| 14 | Humanities/Fine Arts #2 | 3 | ENG 246 American Literature OR ENG 255 World Literature OR | ENGH 202 or FRLN L330 (ENG | Literature |
| | | | ENG 258 African American Literature OR | 255 only) | |
| | | | ENG 275 Women in Literature OR | | |
| | | | Any 200-Level ENG Literature course ⁴ | | |
| 15 | MTH 265 Required (NOVA Catalog: MTH 265, CSC 205, CSC 215) | 4 | MTH 265 Calculus III | MATH 213 | Major |
| | | | See footnote #3 when selecting from the following: | BIOL 102 | |
| | | | BIO 102 General Biology II OR | CHEM 212-214 | |
| 6 | Science Course #2 | 4 | CHM 112 General Chemistry II OR | PHY 260-261 | Major |
| | | | PHY 242 University Physics II OR | GEOL 102/104 | |
| | | | GOL 106 Historical Geology | 0101101,101 | |
| | | | ECO 201 Principles of Macroeconomics OR | ECON 104 | |
| | | | ECO 202 Principles of Microeconomics OR | ECON 103 | |
| | | | GEO 210 People and the Land: An Introduction to Cultural | GGS 103 | |
| | | | Geography OR | HIST 121 | |
| 7 | Social/Behavioral Sciences | 3 | HIS 121 United States History to 1877 OR | HIST 122 | Soc/Behav |
| | | | HIS 122 United States History Since 1865 OR | GOVT 103 | |
| | | | PLS 135 U.S. Government and Politics OR | PSYC 100 | |
| | | | PSY 200 Principles of Psychology OR | SOCI 101 | |
| | | | SOC 200 Introduction to Sociology OR | ANTH 114 | |
| | | | SOC 211 Cultural Anthropology | | |
| 8 | Approved Elective | 3 | CST 100 Principles of Public Speaking OR | COMM 100 | Oral Comm |
| | | 5 | CST 110 Introduction to Human Communication | COMM 101 | |
| | S. COMP SCIENCE DEGREE TAL | 61 | | | |
| <u> </u> | | cedures, p | lease see NOVA catalog - http://www.nvcc.edu/catalog/index.ht | tml | |
| | | | lease see NOVA catalog - http://www.nvcc.edu/catalog/index.h | tml | |
| | For academic policies and pro S. Computer Science MASON DEGREE | | lease see NOVA catalog - http://www.nvcc.edu/catalog/index.h Course | tml | MASON CORE/DEGREE |
| - | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT | e | | tml | |
| 8. | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements | e | Course CS 110 Essentials of Computer Science | tml | CORE/DEGRE |
| 9 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics | e Credits | Course CS 110 Essentials of Computer Science If not completed at NOVA: | tml | CORE/DEGREI |
| 9 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics Requirement | Credits 3 | Course CS 110 Essentials of Computer Science | tml | CORE/DEGRE |
| 9 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics | Credits 3 | Course CS 110 Essentials of Computer Science If not completed at NOVA: | tml | CORE/DEGRE EQUIVALENT Major Major |
| 9 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics Requirement Gen Ed: Written | Credits 3 0-3 | Course CS 110 Essentials of Computer Science If not completed at NOVA: MATH 203 Linear Algebra ENGH 302 Advanced Composition (Natural Science Section) | tml | CORE/DEGRE EQUIVALENT Major Major |
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| .9 .0 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics Requirement Gen Ed: Written Communication (Upper- | Credits 3 0-3 | Course CS 110 Essentials of Computer Science If not completed at NOVA: MATH 203 Linear Algebra ENGH 302 Advanced Composition (Natural Science Section) If not completed at NOVA: See footnote #3 when selecting from the following: | tml | CORE/DEGRE EQUIVALENT Major Major |
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| 9 | For academic policies and pro S. Computer Science MASON DEGREE REQUIREMENT Computer Science Core Requirements Mathematics/Statistics Requirement Gen Ed: Written Communication (Upper- | Credits 3 0-3 | Course CS 110 Essentials of Computer Science If not completed at NOVA: MATH 203 Linear Algebra ENGH 302 Advanced Composition (Natural Science Section) If not completed at NOVA: See footnote #3 when selecting from the following: BIOL 103/105 Introductory Biology I OR BIOL 102 Introductory Biology II Lecture & Lab OR | tml | CORE/DEGRE EQUIVALENT Major Major |
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| 29 | Computer Science Core Requirements | 3 | CS 471 Operating Systems | Major |
|----|---------------------------------------|---------|--|----------------------|
| 30 | Computer Science Core Requirements | 3 | CS 483 Analysis of Algorithms | Major |
| 31 | Computer Science Core Requirements | 3 | CS 455 Computer Communications and Networking OR CS 468 Secure Programming and Systems OR CS 475 Concurrent and Distributed Systems OR CS 487 Introduction to Cryptography | Major |
| 32 | Computer Science Core Requirements | 3 | Approved Senior Computer Science Elective ⁵ | Major |
| 33 | Computer Science Core Requirements | 3 | Approved Senior Computer Science Elective ⁵ | Major |
| 34 | Computer Science Core Requirements | 3 | Approved Senior Computer Science Elective ⁵ | Major |
| 35 | Computer Science Core Requirements | 3 | Approved Senior Computer Science Elective ⁵ | Major |
| 36 | Mathematics/Statistics Requirement | 3 | STAT 344 Probability and Statistics for Engineers and Scientists I | Major |
| 37 | Computer Science Core Requirements | 3 | Approved Computer Science Related-Course Elective ⁵ | Major |
| 38 | Computer Science Core Requirements | 3 | Approved Computer Science Related-Course Elective ⁵ | Major |
| 39 | Gen Ed: Global Understanding | 3 | Approved Global Understanding Course ⁶ | Global Understanding |
| | COMPUTER SCIENCE | 121-126 | | |

Important Academic Information:

¹Students who complete ENG 111 after Spring 2024 will earn ENGH elective for ENG 111 and ENGH 101 for ENG 112.

²Students who place directly into MTH 263 and do not need MTH 167 should take MTH 266 and an additional Lab Science class (BIO 101, CHM 111, PHY 241, or GOL 105).

³12 credits of Natural Science must include a two-course sequence in the same subject. See advisor to ensure the selected course was not already completed at NOVA.

⁴200-level ENG literature classes include: ENG 225, ENG 230, ENG 236, ENG 237, ENG 245, ENG 246, ENG 250, ENG 255, ENG 256, ENG 257, ENG 258, ENG 271, ENG 275, and ENG 279.

⁵For Computer Science Electives, please visit - https://catalog.gmu.edu/colleges-schools/engineering-computing/school-computing/computerscience/computer-science-bs/#requirementstext

⁶For approved Mason Core courses, please visit - https://catalog.gmu.edu/mason-core/. Students with a completed AS, AA, or AFA degree are eligible for a waiver of the Foundation and Exploration (lower division) Mason Core general education categories and may be able to replace this course with a general elective, as needed to reach 120 total credits. Please see your ADVANCE Coach for more information.

Additional General Notes & Resources:

• Students interested in pursuing licensure to teach at the secondary level may add the Undergraduate Certificate: Secondary Education - Computer Science to this degree. For more information visit: https://education.gmu.edu/secondary-education-6-12/academics/. Some certificate courses can be used to fulfill general elective requirements, but additional credits may be needed to complete the certificate. Students interested in teacher licensure should meet with a Mason pre-teacher advisor. Contact information: https://cehd.gmu.edu/teacher/advising/advising-appointment/

• Students who complete a VCCS transfer associate degree (AS, AA, & AFA) will receive a waiver of the Foundation and Exploration (lower division) Mason Core general education categories. To be eligible for the waiver, the students must provide the Mason Office of Admissions with a final, official transcript reflecting the degree conferral date. As a prerequisite for ENGH 302, ENGH 101 is not waived. Students must complete ENGH 100 or ENGH 101, or an equivalent, with a C or higher.

• For academic policies and procedures, please see Mason catalog - https://catalog.gmu.edu/policies/

• Students seeking a bachelor's degree must apply at least 45 credits of upper-level courses (numbered 300 or above) toward graduation requirements. This cannot include transferred credits with an L-designation (e.g. ECE-L301 or STAT L344). All B.S. degrees at Mason require a minimum of 120 credits; see your Mason advisor for advice on what courses to take if needed.