VOLGENAU SCHOOL OF ENGINEERING

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- Art Pyster, Associate Dean for Research
- Ariela Sofer, Associate Dean for Administration and Faculty Affairs
- Sanjeev Setia, Associate Dean for Computing Programs and Initiatives
- Kim Goodwin-Slater, Director of Finance
- Christopher Carr, Chief Diversity Officer

College Code: VS

The Volgenau School of Engineering delivers a transformative learning experience to its students by integrating engineering and technology with other areas of scholarship. We produce visionary stewards of society who are prepared to discover solutions to complex global challenges and make the world safer, cleaner, and more prosperous. A faculty of engaged educators lead high-impact research in critical areas, including sustainability, big data, cybersecurity, robotics and artificial intelligence, signals and communications, and healthcare technology. These existing and emerging areas of expertise span departmental and disciplinary boundaries and reflect the breadth of the scholarly activities of our faculty and students.

The Volgenau School of Engineering prepares students to solve complex, multidisciplinary, global challenges by leveraging innovative learning tools, the inventive capacity of our region, and Mason’s global presence. The faculty and administration support the needs of the 21st century learner by providing multiple paths to success, a diverse and inclusive academic community, and real time integration of new data and technology in the classroom.

A proposal for a reorganization of the Volgenau School of Engineering to the College of Engineering and Computing, comprised of the School of Computing and Volgenau School of Engineering, is pending approval. As of April 1st, the proposal for the College of Engineering and Computing has been approved. The remaining reorganization is still pending.

Undergraduate Programs

Bachelor of Science Programs

Our undergraduate degree programs prepare students to enter directly into professional employment or continue studies at the graduate level. The requirements for the bachelor’s degrees include required and elective courses in mathematics, humanities, Mason Core, and specialty courses applicable to the major. Each program strongly emphasizes English composition and communication.

The Volgenau School offers the following Bachelor of Science programs:

- Applied Computer Science (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/)
- Bioengineering (http://catalog.gmu.edu/colleges-schools/engineering/bioengineering/bioengineering-bs/)
- Civil and Infrastructure Engineering (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/)
- Computer Engineering (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/computer-engineering-bs/)
- Computer Science (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/computer-science-bs/)
- Cyber Security Engineering (http://catalog.gmu.edu/colleges-schools/engineering/cyber-security-engineering/cyber-security-engineering-bs/)
- Electrical Engineering (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-engineering-bs/)
- Information Technology (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/)
- Mechanical Engineering (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/)
- Statistics (http://catalog.gmu.edu/colleges-schools/engineering/statistics/statistics-bs/)
- Systems Engineering (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/)

Minors

Minors are available in aviation flight training and management, bioengineering, computer science, data analysis, environmental engineering, information technology, mechanical engineering, software engineering, statistics, and systems engineering.

BS/Accelerated MS Programs

Accelerated master's degree programs offer high-achieving Mason undergraduates the opportunity to complete their bachelor's and master's degrees within five years. Qualified candidates take advantage of a streamlined master's application process with no application fee and the ability to take up to 12 graduate credits at the undergraduate tuition rate.

- Applied Computer Science, BS/Computer Science, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext)
- Applied Computer Science, BS/Data Analytics Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/
engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext

- Applied Computer Science, BS/Information Security and Assurance, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext)
- Applied Computer Science, BS/Information Systems, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext)
- Applied Computer Science, BS/Information Technology, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext)
- Applied Computer Science, BS/Software Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/applied-computer-science-bs/#acceleratedmasterstext)
- BS (selected)/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/#acceleratedmasterstext)
- BS (selected)/Statistical Science, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/#acceleratedmasterstext)
- BS (selected)/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/#acceleratedmasterstext)
- Bachelor's Degree (Green Leaf)/Environmental Science and Policy, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/#acceleratedmasterstext)
- Bioengineering, BS/Data Analytics Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/data-analytics-engineering-ms/#acceleratedmasterstext)
- Bioengineering, BS/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/operations-research-ms/#acceleratedmasterstext)
- Bioengineering, BS/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-ms/#acceleratedmasterstext)
- Civil and Infrastructure Engineering, BS/Civil and Infrastructure Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/#acceleratedmasterstext)
- Civil and Infrastructure Engineering, BS/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/#acceleratedmasterstext)
- Civil and Infrastructure Engineering, BS/Software Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-bs/#acceleratedmasterstext)
- Civil and Infrastructure Engineering, BS/Systems Engineering, Accelerated MS (https://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/#acceleratedmasterstext)
- Cyber Security Engineering, BS/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/
systems-operations-research/operations-research-ms/#acceleratedmasterstext

• Cyber Security Engineering, BS/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-ms/#acceleratedmasterstext)

• Electrical Engineering, BS/Computer Engineering, Accelerated MS (https://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-engineering-bs/#acceleratedmasterstext)

• Electrical Engineering, BS/Electrical Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-engineering-bs/#acceleratedmasterstext)


• Electrical Engineering, BS/Systems Engineering, Accelerated MS (https://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-engineering-bs/#acceleratedmasterstext)

• Electrical Engineering, BS/Telecommunications, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/telecommunications-ms/#acceleratedmasterstext)

• Individualized Study, BIS/Telecommunications, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/telecommunications-ms/#acceleratedmasterstext)

• Individualized Study, BIS/Applied Information Technology, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/applied-information-technology-ms/#acceleratedmasterstext)

• Information Technology, BS/Applied Information Technology, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Information Technology, BS/Digital Forensics, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Information Technology, BS/Information Security and Assurance, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Information Technology, BS/Information Systems, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Information Technology, BS/Software Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Information Technology, BS/Telecommunications, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Applied and Engineering Physics, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Applied Information Technology, Accelerated MS (https://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Civil and Infrastructure Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Computational Science, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Data Analytics Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Mechanical Engineering, BS/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/mechanical/mechanical-engineering-bs/#acceleratedmasterstext)

• Statistics, BS/Biostatistics, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/statistics/statistics-bs/#acceleratedmasterstext)


• Statistics, BS/Operations Research, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-operations-research-ms/#acceleratedmasterstext)


• Statistics, BS/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-operations-research-ms/#acceleratedmasterstext)

• Systems Engineering BS/Systems Engineering, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-ms/#acceleratedmasterstext)

• Systems Engineering, BS/Telecommunications, Accelerated MS (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-bs/#acceleratedmasterstext)

Graduate Programs
Master of Science Programs
The ever-increasing complexity and technical challenges in engineering, computer science, and information technology demand studies beyond the bachelor’s degree.
The Volgenau School offers the following master's programs:

- Applied Information Technology (http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/applied-information-technology-ms/)
- Bioengineering (http://catalog.gmu.edu/colleges-schools/engineering/bioengineering/bioengineering-ms/)
- Biostatistics (http://catalog.gmu.edu/colleges-schools/engineering/statistics/biostatistics-phd/)
- Civil and Infrastructure Engineering (http://catalog.gmu.edu/colleges-schools/engineering/civil-environmental-infrastructure/civil-infrastructure-engineering-ms/)
- Computer Engineering (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/computer-engineering-ms/)
- Computer Science (http://catalog.gmu.edu/colleges-schools/engineering/data-analytics-engineering-ms/)
- Cyber Security Engineering (http://catalog.gmu.edu/colleges-schools/engineering/cyber-security-engineering/cyber-security-engineering-ms/)
- Data Analytics Engineering (http://catalog.gmu.edu/colleges-schools/engineering/data-analytics-engineering-ms/)
- Digital Forensics (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/digital-forensics-ms/)
- Electrical Engineering (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-engineering-ms/)
- Information Security and Assurance (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/information-security-assurance-ms/)
- Information Systems (http://catalog.gmu.edu/colleges-schools/engineering/computer-science/information-systems-ms/)
- Operations Research (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/operations-research-ms/)
- Software Engineering (http://catalog.gmu.edu/colleges-schools/engineering/software-engineering-ms/)
- Statistical Science (http://catalog.gmu.edu/colleges-schools/engineering/statistics/statistical-science-phd/)
- Systems Engineering (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-ms/)
- Telecommunications (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/telecommunications-ms/)
- Electrical and Computer Engineering (http://catalog.gmu.edu/colleges-schools/engineering/electrical-computer/electrical-computer-engineering-phd/)
- Information Technology (http://catalog.gmu.edu/colleges-schools/engineering/information-technology-phd/)
- Mechanical Engineering (program in development)
- Statistical Science (http://catalog.gmu.edu/colleges-schools/engineering/statistics/statistical-science-phd/)
- Systems Engineering and Operations Research (http://catalog.gmu.edu/colleges-schools/engineering/systems-operations-research/systems-engineering-operations-research-phd/)

Cardinal Education

Cardinal Education (formerly the Commonwealth Graduate Engineering Program/CGEP) is the premier provider of high-quality post-baccalaureate online engineering education in the Commonwealth of Virginia. It is designed for practicing engineers, computing, and information scientists interested in maintaining and enhancing their skills through the pursuit of an online degree or certificate. Participating universities are: George Mason University, Old Dominion University, University of Virginia, Virginia Commonwealth University, Virginia State University, and Virginia Tech.

Offerings include master's degrees and certificate programs. While each program is based at one of the six participating universities, the collaboration between universities allows students more flexibility, potential shorter time to completion, and greater variety in course offerings. A substantial number of course requirements can be taken at any of the six participating universities to satisfy the degree or certificate program.

Students interested should begin by applying directly to the university offering the degree of interest. Mason has a number of degree and certificate programs available through Cardinal Education. These programs follow all policies stated in this catalog for the program, while also allowing up to 50 percent of non-core required credits to be completed at other Cardinal Education participating universities. Faculty advisor approval is needed when taking courses at a partner university.

Policies for other universities’ programs and courses are determined by those institutions. Please consult with the university offering the program or course of interest for details.

For more information including the Mason programs available through this partnership, visit the Cardinal Education website.

Requirements & Policies

Undergraduate Requirements

Degree Requirements

The following general requirements must be completed by all undergraduate students:

- At least 120 credits of academic work including at least 45 credits of upper-level courses (numbered 300 or above);
- At least 6 credits of English composition, 3 credits of literature, and 3 credits of oral communication (Mason Core courses);
- At least 3 credits of arts, 3 credits of Western civilization or world history, 3 credits of social and behavioral science, and 3 credits of global understanding issues (Mason Core courses);
All requirements are listed in the sections for specific Volgenau School majors. These include university requirements for mathematics, natural science, information technology and computing, and synthesis. Sample schedules that fulfill degree requirements for individual programs within the Volgenau School are available from the departments.

**Undergraduate Policies**

**Academic Policies**

Students should become familiar with the Academic Policies (http://catalog.gmu.edu/policies/academic/) in the University Catalog in addition to policies specific to each academic unit. The Academic Policies (http://catalog.gmu.edu/policies/academic/) also list additional university requirements for minor programs and double majors.

**Academic Appeal of Policies and Actions**

A student’s instructor, academic advisor and/or department can resolve most academic issues. If, however, an undergraduate student disagrees with a decision at the department level and feels that there may be reasonable grounds for appeal, the student should contact the Volgenau School Undergraduate Student Services Office at 703-993-1511 for guidance in preparing a request to the Associate Dean for Undergraduate Programs or other offices as appropriate. Information about grade appeals is found in AP3.9 Grade Appeals (http://catalog.gmu.edu/policies/academic/grading/#ap-3-9).

**Academic Progression**

Students majoring in Volgenau School programs are expected to have an acceptable plan of study on file, formulated with assistance from their departmental advisor. They are expected to make reasonable progress toward their degree during each semester in which they are enrolled.

Termination from a major—or from all majors in a college—may be imposed as a result of excessive repeating of required courses without achieving the minimum standard, and for other evidence of continued failure to make adequate progress toward declaration or completion of the major. For more information, see AP.5.2.4 Termination from the Major (https://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-2-4).

**Sample Schedules**

Sample schedules that fulfill degree requirements for individual programs within the Volgenau School are available from the departments.

**Change of Major**

1. **Criteria for freshman students in their first semester at Mason**

   Freshman students who have been admitted to any VSE engineering or computer science program may change their major to any other engineering or computer science program before the final drop deadline of their first semester at Mason.

   Freshman students who have been admitted to Information Technology, Statistics, VSE Undeclared, VSE Undecided, or any non-VSE major must have departmental approval to change their major to a VSE program before the final drop deadline of their first semester at Mason.

   Any change of major requests made after this deadline are bound to the change of major criteria outlined in section 3 and require the completion of at least one semester at Mason.

2. **Criteria for transfer students in their first semester at Mason**

   Transfer students who have been admitted to any VSE engineering program may change their major to any other engineering program before the final drop deadline of their first semester at Mason.

   Transfer students who have been admitted to Computer Science, Information Technology, Statistics, VSE Undeclared, or any non-VSE major must have department approval to change their major to a VSE program before the final drop deadline of their first semester at Mason.

   Any change of major requests made after this deadline are bound to the change of major criteria outlined in section 3 and require the completion of at least one semester at Mason.

3. **Criteria for students who have completed at least one semester at Mason**

   Students who have completed at least one semester at Mason and who are considering changing their major to any VSE engineering program should consult with the Volgenau School of Engineering Coordinator of Undergraduate Advising, 2500 Nguyen Engineering Building. These students must have successfully completed MATH 114, PHYS 160 and PHYS 161 (with a grade of at least C) and should have a minimum Mason GPA of 2.75* in all technical coursework. Technical coursework refers to any math, physics, engineering, statistics and computer sciences courses completed thus far at Mason and that are applicable to the intended engineering major. At least 6 credits of these technical courses should have been completed successfully at Mason.

   *Students considering changing their major to Bioengineering with a Pre-Health concentration need to meet the above VSE engineering program requirements furthermore with a minimum Mason GPA of 3.00.

   Students considering changing their major to Applied Computer Science, Computer Science, Information Technology, or Statistics should consult with the Volgenau School of Engineering Coordinator of Undergraduate Advising, 2500 Nguyen Engineering Building. These students need to meet the criteria for that program as defined in the change of major section for that program in the catalog. Minimum GPA requirements stated for those programs are based on courses taken at Mason.

   Exceptions to the policy may only be granted at the discretion of the chair or associate chair of the department.

**Undecided Students in the Volgenau School of Engineering**

Students who are undecided about their specific major may select Volgenau School Undecided as their major. This should be done as soon as possible after a student enrolls at Mason. Students will be advised to follow an initial semester or two of courses that could be applicable to majors that are of interest to them. This may involve taking courses that help the student better understand different engineering and computing areas, but which may not contribute to the total credits needed for the major they eventually choose.

VSE Undecided students are advised by the VSE Undeclared Academic Advisor and occasionally by the Coordinator of Undergraduate Academic Advising in the Student Services Office. Students should seek advising at least once each semester.

**Undeclared Students in the Volgenau School of Engineering**

Students who apply to a VSE major but do not meet major admissions criteria will be accepted into VSE Undeclared. These students
will become eligible to declare a VSE major after meeting specific requirements as determined by that particular major. Students will be advised to follow an initial semester or two of courses that would be applicable to the major they plan to declare.

VSE Undeclared students are advised by the VSE Undeclared Academic Advisor and occasionally by the Coordinator of Undergraduate Academic Advising in the Student Services Office. Students should seek advising at least once each semester.

**Writing-Intensive Requirement**
The university requires all undergraduate students to successfully complete a course, or a combination of courses, designated "writing intensive" in their majors at the 300 level or above. To determine the writing-intensive course requirements for specific degrees, refer to the major program descriptions in the following department sections.

**Restricted Courses**
Students are encouraged to take advantage of the many excellent courses available to broaden their educational experience or strengthen their background; however, some credits earned may not satisfy any degree requirements. Degree requirements for Volgenau School undergraduate programs may not include credits earned in military science. At most 3 credits of 100-level RECR coursework may be taken to satisfy the degree requirements of those VSE programs that allow general electives. Whenever there is uncertainty, students must consult with an academic advisor in their department.

**Online Education Programs**
In order to increase access to Volgenau School education while meeting the needs of the School’s student population, select degree programs and courses may be completed via online education. All academic policies and procedures apply to online education programs and courses as referred to in the appropriate sections of this catalog. Some instructors may require exams and/or other meetings to take place in a proctored or on-campus environment. Students should contact the instructor concerning these requirements if not explicitly stated on Patriot Web. Space permitting and if desired, students enrolled in the online sections are also permitted to attend the instructor’s campus-based classroom section if offered during the same semester.

For more information about the Volgenau School programs available online, visit Mason Online (http://masononline.gmu.edu/).

**Termination from the Major**
No math, science, or Volgenau School of Engineering course that is required for the major may be attempted more than three times. Those students who do not successfully complete such a course within three attempts will be terminated from the major. Undeclared students in the Volgenau School who do not successfully complete a course required for a Volgenau School major within three attempts will also be terminated.

In addition, students in the Volgenau School with evidence of continued failure to make adequate progress toward declaring or completing a Volgenau School major will be terminated from the school. Adequate progress is determined by the major program. For more information, see AP5.2.4 Termination from the Major (https://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-2-4).

Once a student has attempted one of these courses twice unsuccessfully, the third attempt must be no later than the next semester of enrollment, excluding summers. Failure to take the course at that time will result in termination from the major. A third attempt of a Volgenau School of Engineering course requires support by the student’s major department as well as permission by the department offering the course. This permission is not guaranteed. If the student is unable to take the course when required, the student may request an extension to a future semester; extensions require approval of the student’s advisor, their department, and the Associate Dean for Undergraduate Programs. The deadline for extension requests is the add deadline for the semester in which the course is required.

Students who have been terminated from a Volgenau School of Engineering major may not register for a Volgenau School course without permission of the department offering the course. This applies to all undergraduate courses offered by the Volgenau School except IT 104 Introduction to Computing and STAT 250 Introductory Statistics I (Mason Core) (http://catalog.gmu.edu/mason-core/).

A student may not declare any major in the Volgenau School of Engineering if the student has previously met the termination criteria for that major at any time, regardless of what the student’s major was at the time the courses were taken.

**Graduate Policies**

**Admission**
Admission decisions are made by the faculty committee or graduate coordinator of the respective graduate program. Denial of admission is not subject to appeal. Applicants denied admission to a program are not permitted to enroll in courses in that graduate program, though they may apply for either non-degree status or admission to another degree program.

If an applicant is offered graduate admission, the college reserves the right to withdraw that offer of admission if:

- During his or her academic studies, the admitted applicant has a significant drop in academic performance in the degree required for completion prior to admission to VSE graduate studies, or fails to graduate with a degree prior to the first day of classes for the term admitted.
- There has been a misrepresentation in the application process.
- Prior to the first day of classes for the term admitted, the school learns that the admitted applicant has engaged in behavior that indicates a serious lack of judgment or integrity, irrespective of the outcome of any disciplinary process related to such behavior.
- Students admitted to an accelerated master’s program do not maintain satisfactory progress in his or her undergraduate program, do not receive a minimum grade of "B" in the graduate classes taken as an undergraduate, or otherwise does not meet the conditions specified on the application and admission letter.

The university further reserves the right to require the applicant to provide additional information (and/or authorization for the release of information) about any such matter.

**Academic Policies**
Students are responsible for becoming familiar and complying with the Academic Policies (https://catalog.gmu.edu/policies/academic/) in the University Catalog in addition to policies specific to the School. A handbook for VSE Graduate Students is maintained online (https://volgenau.gmu.edu/about/current-student-resources/vse-graduate-student-handbook/) with graduate-specific Volgenau information.
Academic Progression
Graduate students must make satisfactory progress toward a degree. At a minimum, this requires maintaining enrollment in at least one term per academic year and achieving a cumulative GPA of 3.0 or higher. Inability to make satisfactory progress toward a degree may result in academic termination (https://catalog.gmu.edu/policies/academic/graduate-policies/). Academic programs of study are entitled to enforce more stringent criteria which may include specific grade requirements in courses, successful completion of doctoral qualifying exams, etc. Please refer to your program for additional information.

Concentration
Students electing a degree concentration, post-admission, must do so in consultation with the graduate program advisor, via formal paperwork approved by the department/school, submitted and processed by the Registrar. It is the student’s responsibility to ensure that their intended concentration is reflected on their transcript prior to graduation.

Doctoral Change of Program
Students in Volgenau School of Engineering doctoral programs are not permitted to change doctoral programs without a new, formal PhD admission application submitted in accordance with the established requirements and deadlines.

Non-degree
Students may decide to apply for Non-Degree status for a number of reasons, including for life-long learning, to take pre-requisite courses, to reacclimate to the environment of higher education or to begin taking classes while they apply to a specific degree program.

University Policy on Non-Degree Student Status can be found in AP.6.4.1. (https://catalog.gmu.edu/policies/academic/graduate-policies/) The Volgenau School of Engineering allows a maximum of 12 credits taken in non-degree status to be transferred to a Master’s degree program; but only 3 credits to a Certificate program and does not permit non-degree graduate students to take classes numbered 700 or higher.

Readmission
Graduate students who have been terminated or have resigned from a program in the Volgenau School and want to reapply to the same program must wait five (5) semesters (Fall/Spring) before submitting a new application for admission. A full application for admission as well as all application materials required of that program must be submitted (or resubmitted). GRE scores, if required, cannot be older than five years. Previous admission to a program does not guarantee readmission to the same program. The circumstances of the prior termination or resignation will be a factor in the decision-making process. Graduate credit earned prior to termination may be applied to the degree program subject to meeting the requirements are satisfied for Transfer of Credit (https://catalog.gmu.edu/policies/academic/graduate-policies/#text).

Online Education Programs
In order to increase access to Volgenau School education while meeting the needs of the School’s student population, select degree programs and courses may be completed via online education. All academic policies and procedures apply to online education programs and courses as referred to in the appropriate sections of this catalog. Some instructors may require exams and/or other meetings to take place in a proctored or on-campus environment. Students should contact the instructor concerning these requirements if not explicitly stated on Patriot Web. Space permitting and if desired, students enrolled in the online sections are also permitted to attend the instructor’s campus-based classroom section if offered during the same semester.

For more information about the Volgenau School programs available online, visit Mason Online (http://masononline.gmu.edu/).

Termination
University policy on Academic Termination can be found in AP6.6.2 (https://catalog.gmu.edu/policies/academic/graduate-policies/). School specific process and criteria can be found in the VSE Graduate Student Handbook. (https://volgenau.gmu.edu/about/current-student-resources/vse-graduate-student-handbook/)

Academic Units
- Department of Bioengineering
- Department of Computer Science
- Department of Cyber Security Engineering
- Department of Electrical and Computer Engineering
- Department of Information Sciences and Technology
- Department of Mechanical Engineering
- Department of Statistics
- Department of Systems Engineering and Operations Research
- Sid and Reva Dewberry Department of Civil, Environmental, and Infrastructure Engineering

Interdisciplinary Programs
- Data Analytics Engineering, MS
- Data Analytics Graduate Certificate
- Information Technology, PhD
- STEM in Society Minor (VSE)