School of Graduate Engineering and Applied Science

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The University of Virginia takes pride in its continued development of modern engineering education and research. For over one hundred fifty years, the University has offered regular study in engineering, coinciding with the industrial development of the South and paralleling the rise of the engineering profession itself. Today, a total of 9 undergraduate and 31 graduate programs are offered by 8 academic departments.

Address

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History

The growth of applied science into a learned profession was anticipated in the founding of the University. As early as 1825, the Rector and Visitors formally indicated that instruction in military and civil architecture would be a part of the education program
and the Darden Graduate School of Business Administration, the program format includes one full week in residence in late May, twenty weekends (Fridays and Saturdays) throughout the year, and a final week in residence during the following April. Tuition covers courses, books, software, lodging and meals.

The program has four core courses: Introduction to Systems Engineering (SYS 601), Systems Integration (SYS 602), Enterprise Analysis and Modeling (SYS 603) and Probabilistic Modeling (SYS 605). Additional elective courses include data analysis and forecasting, risk analysis and modeling, information systems architecture and decision analysis among others. Prerequisites include a bachelor’s degree from an college or university of recognized standing, calculus (2 semesters), probability and statistics (calculus-based), linear algebra (or equivalent) and computer programming. Applicants must take the GRE general exam.

Commonwealth Graduate Engineering Program (CGEP)

In addition to the resident Master of Engineering degree program conducted on the Grounds of the University of Virginia, the School of Engineering and Applied Science offers the following six degrees through the Commonwealth Graduate Engineering Program: Master of Engineering in Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical and Aerospace Engineering, and Systems Engineering; Master of Engineering Physics, and Master of Materials Science and Engineering.

Regular graduate courses are taught via videoconferencing throughout the Commonwealth and to selected out-of-state locations. This two-way video/two-way audio capability provides professors and students on-Grounds the ability to communicate with off-Grounds students at remote classroom sites. Serving as off-Grounds receive sites are Virginia Polytechnic Institute and State University, George Mason University, Virginia Commonwealth University, Old Dominion University, Mary Washington College, and Shenandoah University, as well as the Centers for Higher Education in Roanoke, Lynchburg, Northern Virginia, Hampton Roads, Abingdon, and Halifax/South Boston. Additionally, certain companies and government agencies have established classrooms at their locations and participate in this graduate engineering program.

Each of the six departments in this program has an appointed advisor who consults with students on curriculum and any special circumstances that might arise with participating working professionals. Students’ programs of study must be approved by their advisors and the associated department chairs and be submitted to the Office of the Dean.

Degree requirements are the same as mentioned in the previous Master of Engineering section, except that an additional three transfer credits from Virginia Commonwealth University, George Mason University, Old Dominion University, or Virginia Polytechnic Institute and State University may be included in the candidate’s program of study.

Graduate courses with grades of C or better taken for graduate credit at participating institutions may be transferred toward meeting the requirement of the Master of Engineering degree.

All graduate courses taken for degree credit through the Commonwealth Graduate Engineering Program, including transfer courses from the participating institutions, are included in the student’s grade point average.