

Engineering Arts Major (EGR)

Special arrangements have been made by which an undergraduate student may attend Georgetown College for three years and the University of Kentucky Engineering School for an additional period of study (generally 2.5-3 years) and to receive degrees from both institutions. After completing the requirements of both institutions, the student will be awarded a Bachelor of Science degree with a major in Engineering Arts from Georgetown College and one of the following degrees from the University of Kentucky: Bachelor of Science in Chemical, Civil, Electrical, or Mechanical Engineering.

In all cases, Engineering Arts Dual Degree students must:

- Have a minimum of ninety-six semester hours credited at Georgetown College.
- Satisfy the Nexus program requirement.
- Satisfy the Georgetown College Foundations and Core requirements.
- Take at Georgetown College the prescribed preparatory courses in mathematics and the sciences that correspond to the type of Engineering degree sought at the University of Kentucky.
- Have the final Georgetown College transcript sent to the University of Kentucky (this is part of the application process to the University of Kentucky Engineering Program, which effectively treats Georgetown College students as transfer students).
- Pass a comprehensive exam. The chemical engineering comprehensive is in math, chemistry, and physics. All other engineering comprehensives are in math and physics.
- Complete the chosen degree at the University of Kentucky.
- Have the final University of Kentucky transcript sent back to the Office of the Registrar at Georgetown College and apply for Georgetown College graduation.

Students matriculating to the University of Kentucky are automatically admitted to pre-engineering but will need to be admitted for engineering standing in an engineering department. The conditions for being admitted to an engineering department vary from department to department and are continually changing. For details, the student should contact an advisor associated with the University of Kentucky engineering program.

Dual degree students may choose one of the following options to participate in a Georgetown College commencement ceremony:

- Participate in the ceremony during the student's final semester at GC.
- Participate in the ceremony during the semester that the student's incoming class graduates.
- Participate in the ceremony during the semester the student completes both UK and GC degrees.

Students must notify the Georgetown College Office of the Registrar of their preferred option two semesters before leaving GC.

Note on Time at University of Kentucky after Transfer

The University of Kentucky advises all prospective transfer students that in most cases 2.5 to three years of study at UK after transfer will be required to complete the Engineering Degree. Completion time depends in part one's chosen Engineering Track: as a rule, a field outside of the traditional "Big Four" (Chemical, Civil, Mechanical, Electrical) requires more time to complete. Also, students who choose to participate, while at UK, in a paid Engineering co-op experience with a local company, generally need more time to complete.

Prospective students should be aware, therefore, of the likely total time of study. On the other hand, note that for students choosing to attend UK throughout rather than to participate in a transfer program, 4-year completion of the degree is also less common than it used to be.

Note on Academic Preparation

Mathematical and scientific coursework for Engineering is quite rigorous, so students must come to Georgetown well-prepared if they expect to finish the preparatory courses in three years. Students should meet the minimum standards for admission to Georgetown and should also have a strong background in mathematics, sufficient to begin *at least* in Precalculus in their first semester at Georgetown. If at all possible, a student should be prepared to begin in at least Calculus I, which requires a strong precalculus background in high school and which strongly recommends an ACT Math sub-score of 26 or higher, or the equivalent.

Note on Program Outcomes

Because Engineering Arts is a dual-degree program with the University of Kentucky, the learning outcomes associated with this program will be assessed by both institutions. Students in Engineering Arts participate fully in the Foundations and Core Program at Georgetown College, and so will acquire core knowledge in a variety of areas of inquiry and will develop skills in creative and critical thinking and written communication. Coursework specific to the Engineering Arts major develops knowledge of basic content in mathematics and science as needed for engineering applications.

Comprehensive Exam

All majors require a senior comprehensive experience. For Engineering Arts majors, the comprehensive experience is the certification by the Registrar that all required preparatory courses at Georgetown College have been completed. Majors should notify the Engineering Arts program coordinator and the Registrar at the beginning of their last intended semester at the College, so that the Registrar can schedule a check of transcripts. The Registrar then notifies the student and the Engineering Arts program coordinator of the results of the certification.

Degree Type: Bachelor of Science (BS)

Program Contact: Assistant Professor Luke Granlund

For students majoring in Engineering Arts, no minor is required for graduation from Georgetown College.

Department: Engineering Arts

Type: B.S.

Core Courses for all Engineering Majors	36 hours
Tracks	10-13 hours
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University of Kentucky Chemical Engineering Track	
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University of Kentucky Civil Engineering Track	
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University of Kentucky Electrical Engineering Track	
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University of Kentucky Mechanical Engineering Track	
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Total	46-49

Core Courses for all Engineering Majors

Item #	Title	Credit Hour(s)
COMM115	Professional Communication	3
CSC115	Computer Science I	3
MAT125	Calculus I	3
MAT225	Calculus II	3
MAT325	Calculus III	3
MAT345	Ordinary Differential Equations	3
PHY211	College Physics I	4
PHY212	College Physics II	4
PHY241	Engineering Physics	3
CHE111	General Chemistry I	3
CHE111L	General Chemistry I Laboratory	1
CHE112	General Chemistry II	3

Tracks

Select remaining Core Courses from one of the following tracks:

University of Kentucky Chemical Engineering Track

Item #	Title	Credit Hour(s)
CHE113	General Chemistry II Lab	1
CHE201	Organic Chemistry I	3
CHE202	Organic Chemistry Lab I - Techniques and Synthesis	1
CHE331	Physical Chemistry I	4
PHY317	Statics	3

University of Kentucky Civil Engineering Track

Item #	Title	Credit Hour(s)
CHE113	General Chemistry II Lab	1
PHY317	Statics	3
PHY319	Dynamics	3
	Upper-Level Math Elective	3

University of Kentucky Electrical Engineering Track

Item #	Title	Credit Hour(s)
CHE113	General Chemistry II Lab	1
PHY317	Statics	3
PHY319	Dynamics	3

University of Kentucky Mechanical Engineering Track

Item #	Title	Credit Hour(s)
CHE113	General Chemistry II Lab	1
PHY317	Statics	3
PHY319	Dynamics	3
	Upper-Level Math Elective	3

Notes:

Depending on the particular engineering program, there will sometimes be additional courses needed so that the student can be accepted for Engineering Standing in their chosen department. To assure a timely progression in the student's chosen program, the student may wish to take some of these courses during the summer.

Total credits:

46-49