



2022-2023

## ENGINEERING MATHEMATICS MAJOR, B.A.

[Joint Engineering program completed through University of Kentucky]  
Mathematical Department; School of Science, Health, and Mathematics

Asbury University offers a dual-degree program in Engineering in cooperation with the University of Kentucky which is located in nearby Lexington. Students in this program take courses at Asbury for three years and then transfer to the University of Kentucky for an additional two to three years to complete the requirements for one of nine engineering degrees (biosystems, chemical, civil, computer, computer science, electrical, materials, mechanical, and mining). The student receives a Bachelor of Arts degree in Engineering Mathematics (a major offered only to students in this program) from Asbury University upon satisfactory completion of the first 27 credits of studies at University of Kentucky which can be achieved in two to three semesters at UK. Upon completing the remaining requirements in engineering, the student receives a Bachelor of Science degree in engineering from UK.

### Engineering Mathematics major policies.

A minimum GPA of 2.5 must be maintained to participate in this program. Some engineering programs may have a higher GPA requirement. Please consult the department chair for more information.

1. All Asbury University Foundations requirements, except Cross Cultural Immersion Experience (CCE 150EX), must be complete prior to transferring to University of Kentucky. While CCE does not need to be finalized prior to transfer, CCE 150EX Immersion Experience requirement must be complete to receive the Asbury University degree.
2. Permission may be granted to take a limited number of University of Kentucky courses while enrolled at Asbury, provided the student is enrolled full-time at Asbury (12 or more credit hours) in addition to any registered UK course. Per University policy, full-time Asbury enrollment is required for financial aid (full-time eligibility), athletic eligibility, campus housing, and international student status at Asbury. See also "Registering for Affiliate Courses & Other Off-Campus Programs."
3. Official University of Kentucky transcript with minimum 27 credits in engineering must be sent to Asbury University in order to receive the Engineering Mathematics degree.)

*To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.*

### MAJOR REQUIREMENTS (73)

__ 3	CHE	121	Gen College Chemistry I	
__ 1	CHE	123	Gen College Chemistry Lab I	
__ 3	CHE	122	Gen College Chemistry II	
__ 1	CHE	124	Gen College Chemistry Lab II	
__ 4	CSC	121	Data Science I	__ Lab
__ 4	MAT	181	Calculus I	__ Lab
__ 4	MAT	182	Calculus II	__ Lab
__ 4	MAT	183	Calculus III	__ Lab
__ 3	MAT	252	Diff Equations/Modeling	
__ 3	MAT	271	Linear Algebra	
__ 3	MAT	350	Mathematical Modeling	
__ 3	MAT	442	Numerical Analysis	
__ 5	PHY	211	Gen Physics I	__ Lab __ Recitation
__ 5	PHY	212	Gen Physics II	__ Lab __ Recitation
__ 27	Plus minimum of 27 hours in chosen engineering major at University of Kentucky. Grade of C or better. (18 hours must be at 200 level or above)			

### PLUS \*FOUNDATIONS REQUIREMENTS (49)

(3 hours Math and 4 hours Science satisfied by required major courses.)

### Plus electives needed for the 124 hour

### Degree requirement (2)

Students must complete \*Foundations and maintain a GPA of 2.5 for transfer to UK.

\*All Asbury University Foundations requirements, except Cross Cultural Engagement (CCE150EX), must be complete prior to transferring to University of Kentucky. While CCE150EX does not need to be finalized prior to transfer, CCE150EX requirement must be complete to receive the Asbury University degree.