

BACHELOR OF SCIENCE: ELECTRICAL COMPUTER ENGINEERING

ABET Program Educational Objectives

Within a few years of graduation, graduates of the Electrical & Computer Engineering program are expected to:

- Utilize their unique blend of electrical and computer engineering proficiencies to create innovative solutions to current and emerging challenges in areas such as nanotechnology, artificial intelligence, embedded systems, robotics, RF engineering, microelectronics, communications, and the smart grid.
- Successfully apply technical knowledge to innovate and bring forth transformational change for metropolitan, regional, and global well-being.
- Exhibit strong leadership skills in solving electrical and computer engineering problems in society.
- Communicate effectively to build successful teams, convey technical information to multiple audiences, and bring technologies to success in the marketplace.
- Continually contribute to the profession through graduate education, professional licensure, or other professional development pursuits.

ABET Student Outcomes

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

University Requirements

General Education

UMKC Essentials is the university-wide curriculum that all undergraduate students will complete. The 30-credit hour program includes a First Year Experience course; three critical thinking courses in the areas of Arts & Humanities, Natural & Physical Sciences, and Social & Behavioral Sciences; a course in Culture and Diverse Perspectives; a course in Civic & Urban Engagement; two courses in Written Composition and one course in Oral Communication; and a Math Pathway course. Transfer students entering UMKC will elect from the UMKC Essentials General Education Program or the Missouri Core 42 General Education Curriculum. Academic advisors will meet with incoming transfer students to determine which option best serves the student's educational needs. More information about General Education may be found on the General Education Requirements (<https://catalog.umkc.edu/undergraduate-academic-regulations-information/general-education-requirements/>) page.

Constitution Course

Every undergraduate student must take a course covering the United States Constitution and the Missouri State Constitution before graduation. Course options are included in the program requirements section below.

Exit Examinations

Information on exit examinations is available in the Undergraduate Academic Regulations and Information (<https://catalog.umkc.edu/undergraduate-academic-regulations-information/graduation/exitexams/>) section of the catalog.

Missouri Higher Education Civics Achievement Examination

In accordance with Missouri Senate Bill 807 (section 170.013.1), 'any student entering a public institution of higher education for the first time after July 2019 who is pursuing an associate's or bachelor's degree from such institution shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation from such institution'. To satisfy this requirement at UMKC, students access the exam through the Canvas site. This requirement will be listed in the degree audit system as, 'Take State Mandated Missouri Higher Education Civics Achievement Examination', and listed on the transcript as 'Missouri Civics Examination'.

Student Learning Outcomes

Students graduating from this program will:

- Identify core challenges, formulate and devise methodology for solving complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply the engineering design process to produce solutions for a given set of engineering requirements in the context of the program's discipline.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Effectively communicate technical information both in written and oral presentation formats and function effectively on teams in a variety of professional contexts.
- Identify professional responsibilities and make informed judgments in engineering practice based on legal and ethical principles.
- Acquire new knowledge, choose appropriate learning strategies, and apply this knowledge in engineering applications and beyond.

Program Description

The Bachelor of Science in Electrical and Computer Engineering (ECE) is accredited by the Engineering Accreditation Commission of ABET <http://www.abet.org/>.

The ECE degree program is designed to provide the key elements of both an electrical engineering and a computer engineering curriculum. Graduates of this program are prepared for larger breadth in job opportunities than are typically available in a traditional electrical engineering program. A BS/MS Program for completing both a BS in ECE and a MS in EE in five years is available. For additional information, please contact the SS&C Student Services Center at (816)235-2399 or sse@umkc.edu.

Career Implications

Job opportunities abound for electrical and computer engineering majors. In terms of starting salaries and the number of job offers, ECE graduates compare favorably with other engineering graduates. In addition, the ECE curriculum at UMKC equips the graduate with the analytical decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

Admission Requirements

High school students planning to apply to this degree program are strongly encouraged to take a college preparatory program that emphasizes mathematics, science and communication skills.

First-time college student applicants to the undergraduate program in electrical and computer engineering will be automatically admitted if they obtain:

1. An ACT mathematics score of at least 25 and
2. An ACT composite score of at least 24 and
3. A 3.0 Core High School GPA

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements will have their applications reviewed for admission. Applicants who are not admitted to this program but do meet UMKC general admission requirements may be admitted to University College.

Students without the prerequisite preparation must take the needed coursework before enrolling in courses required for the bachelor's degree. Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer applicants must have at least 24 credits of transferable college credit, an overall 2.0 GPA on a 4.0 scale in all coursework, which includes repeated coursework, attempted at previous institutions. Transfer applicants without a 2.0 or higher college GPA must submit a petition for admission.

Program Requirements

UMKC Essentials

Code	Title	Credits
First Semester Experience Course (GEFSE)		3
Written Communication:		
ENGLISH 110	Introduction to Academic Prose	3
ENGLISH 225	English II: Intermediate Academic Prose	3
Oral Communication (choose one of the following):		3
COMM-ST 110	Fundamentals of Effective Speaking and Listening	
COMM-ST 140	Introduction to Communication	
COMM-ST 212	Argumentation And Debate	
COMM-ST 277	Interpersonal Communication	
Math Pathway (Satisfied in program requirements below)		

Critical Thinking in Arts & Humanities (GECRT-AH)	3
Critical Thinking in Natural & Physical Sciences (GECRT-SC; Satisfied in program requirements below)	
Critical Thinking in Social & Behavioral Sciences (GECRT-SS)	3
Culture & Diverse Perspectives (GECDEV)	3
Civic & Urban Engagement (GECUE; Satisfied in program requirements below)	
Total Credits	21

Constitution Course Requirement

Section 170.011.1 of the Missouri Revised Statutes, 2015, states that all candidates for a degree issued by a college or university in the state of Missouri must have "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the state of Missouri, and in American history and American institutions."

Courses at UMKC that satisfy this state requirement are:

Code	Title	Credits
Choose one of the following:		3
CJC 364	The Supreme Court And The Criminal Process	
HISTORY 101	U.S. History to 1877	
HISTORY 102	U.S. History Since 1877	
HONORS 230	Honors American Government	
POL-SCI 210	American Government	
Total Credits		3

There are a few other ways this requirement can be satisfied for students transferring to UMKC:

- Take an equivalent course from the list above at a regionally accredited institution.
- Earn credit for one of the above courses through AP, IB, or CLEP.
- Take a course that directly satisfies the Missouri Constitution Requirement at another Missouri institution.
- Have a previous bachelor's degree (or higher) from a regionally accredited institution.
- Have an Associate of Arts degree from a regionally accredited institution.
- Complete the 42 Hour Core at a Missouri institution and have it listed on the official transcript.

Major Requirements

Code	Title	Credits
Math Requirements		
MATH 110 (Pre-Calculus Algebra; Typically not required due to ACT Admission Requirement)		
MATH 120 (Pre-Calculus; Typically not required due to ACT Admission Requirement)		
MATH 210	Calculus I	4
MATH 220	Calculus II	4
E&C-ENGR 241	Applied Engineering Analysis I	3
E&C-ENGR 341R	Applied Engineering Analysis II	3
E&C-ENGR 348	Discrete Mathematics and Probability	3
Life and Physical Sciences Requirements		
BIOLOGY 102 & 102L or CHEM 211/211L	Biology and Living and Biology and Living Laboratory General Chemistry I	4
PHYSICS 240	Physics For Scientists and Engineers I	5
PHYSICS 250	Physics For Scientists and Engineers II	5
Higher Order Thinking Requirements		
E&C-ENGR 216	Engineering Computation	4
Electrical and Computer Engineering Requirements		
COMP-SCI 304	Ethics and Professionalism (satisfies GECUE requirement)	3
E&C-ENGR 226	Logic Design	3
E&C-ENGR 227	Logic Design Laboratory	1
E&C-ENGR 228	Introduction to Computer Design	3

E&C-ENGR 229	Introduction to Computer Design Laboratory	1
E&C-ENGR 276	Circuit Theory I	3
E&C-ENGR 277	Circuit Theory I Lab	1
E&C-ENGR 302	Electromagnetic Waves and Fields (satisfies GECRT-SC course requirement)	3
E&C-ENGR 303	Electromagnetic Waves and Fields Lab	1
E&C-ENGR 330	Electronic Circuits	3
E&C-ENGR 331	Electronic Circuits Laboratory	1
E&C-ENGR 334	Semiconductors and Devices	3
E&C-ENGR 358	Introduction to Control Systems	3
or E&C-ENGR 474	Introduction to Communication Systems	
E&C-ENGR 376	Circuit Theory II	3
E&C-ENGR 377	Circuit Theory II Lab	1
E&C-ENGR 380	Signals and Systems	3
E&C-ENGR 381	Signals and Systems Lab	1
E&C-ENGR 402	Senior Design I	3
E&C-ENGR 403	Senior Design II	2
E&C-ENGR 426	Microcomputer Architecture and Interfacing	3
E&C-ENGR 427	Microcomputer Laboratory	1
E&C-ENGR 428R	Embedded Systems	3
E&C-ENGR 429	Embedded Systems Laboratory	1
E&C-ENGR 466	Power Systems I	3
E&C-ENGR 486	Pattern Recognition	3
MEC-ENGR 130	Engineering Graphics	3
Senior Electives		
Take 2 elective courses at the 400 level in ECE (not already completed above or from the list below).		6
E&C-ENGR 412	Foundations of Antenna Engineering	
E&C-ENGR 416	Neural and Adaptive Systems	
E&C-ENGR 417	Introduction to Microwave Engineering	
E&C-ENGR 419	Introduction to Applied Numerical Analysis	
E&C-ENGR 433	Analog Integrated Circuit Design	
E&C-ENGR 436	Power Electronics I	
E&C-ENGR 439	Principles of Nanoscale Devices & Circuits	
E&C-ENGR 440	Principles of Nanomanufacturing	
E&C-ENGR 441	Principles of Optics and Photonics	
E&C-ENGR 442	Introduction to VLSI Design	
E&C-ENGR 443	Introduction to VLSI Design Laboratory	
E&C-ENGR 445	Introduction to Flexible Electronics	
E&C-ENGR 446	Introduction to Digital Electronics	
E&C-ENGR 447	Introduction to Application-Specific Integrated Circuit Physical Design and Testing	
E&C-ENGR 455	Instrumentation and Control	
E&C-ENGR 457	Fundamentals of Solar Photovoltaic Cells	
E&C-ENGR 458	Automatic Control System Design	
E&C-ENGR 459	Introduction to Photovoltaic Systems	
E&C-ENGR 463	Advanced Sustainable Energy Systems Engineering	
E&C-ENGR 464	Smart Grid and SCADA Systems	
E&C-ENGR 467	Power Systems II	
E&C-ENGR 468	Electric Power Distribution Systems	
E&C-ENGR 473	Introduction to Power System Protection	
E&C-ENGR 475	Data Compression	
E&C-ENGR 477	Introduction to Wireless Networking	
E&C-ENGR 480	Digital Signal Processing	
E&C-ENGR 484	Digital Image Processing	

Take one elective course at the 400 level in ECE, COMP-SCI, INFO-TEC, or PHYSICS (not already completed above). 3

COMP-SCI 423	Client/Server Programming and Applications
COMP-SCI 457	Software Architecture: Requirements & Design
COMP-SCI 458	Software Testing and Verification
INFO-TEC 426	Practical Network Security
PHYSICS 410	Thermal Physics
PHYSICS 420	Optics
PHYSICS 450	Introduction To Solid State Physics
PHYSICS 460	Electricity And Magnetism I
PHYSICS 461	Electricity And Magnetism II
PHYSICS 472	Introduction To Quantum Mechanics

Total Credits 103

Minimum GPA: 2.0

Minimum grade of C- in all courses offered in the School of Science and Engineering.

Total Credit Hours: 127

Tools for Planning and Fulfilling Academic Requirements

UMKC's Major Maps are detailed, semester by semester plans that lead a student to complete all degree requirements within four years. Plans include benchmarks and critical courses by term that assist a student's evaluation of progress and major "fit". In order to ensure that the appropriate courses are taken, students are encouraged to consult with the undergraduate advisor for this major. Please see the tab above to view the major map for this program.

UMKC's Transfer Guides (<https://www.umkc.edu/transfer/transfer-credit/transfer-guides.html>) provide detailed guidance on recommended transfer coursework, plans of study, transfer timelines, and transfer contact information. To ensure a seamless transfer experience, students are encouraged to work with both their community college advisor and a UMKC advisor when planning their coursework.

UMKC's PlanMyDegree 'Audit' (<https://www.umkc.edu/registrar/academic-programs/plan-my-degree.html>) degree audit system provides an individual evaluation of all degree requirements (General Education, Degree Specific, Major Specific, etc.) for students' officially recorded (Office of the Registrar) and "what if" exploratory plans of study. This evaluation is used to certify all graduation requirements.

UMKC's PlanMyDegree 'Plans' (<https://www.umkc.edu/registrar/academic-programs/plan-my-degree.html>) degree planning tool enables students to develop a personalized semester by semester plan of study towards completion of degree requirements for student's officially recorded (Office of the Registrar) and "what if" exploratory plans of study. Update and edit your full plan to degree completion each term and confirm accuracy each semester with your Academic Advisor(s).

Licensure Disclosure

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State licensure as a Professional Engineer (PE) is not required to work in the field of engineering. However, some employment opportunities may require a PE license.

UMKC strongly recommends that students review the applicable licensure board(s) in their state of residence or in the state where they intend to obtain a license before beginning an academic program that results in licensure or certification and prior to beginning any practicum/internship. See UMKC's Professional Licensure Disclosures (<https://www.umkc.edu/provost/academics/professional-licensure-disclosures.html>) page for more information.

States in Which the Curriculum Meets the Educational Requirements for Licensure

All US states and territories.

States in Which the Curriculum Does Not Meet the Educational Requirements for Licensure

N/A.

Major Map

Four Year Graduation Plan - Courses & Critical Benchmarks for First Time College Students:

UMKC's Major Maps are detailed, undergraduate four-year course outlines that inform students on the classes they should take and when to take them. Outlines are updated yearly. Graduate students should visit their program's individual school for program outlines.

The following is a sample course of study. Your path to graduation may vary based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning, and placement in Mathematics. You are responsible for checking prerequisites to any courses. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

First Year

Fall Semester	Credits	Spring Semester	Credits
MATH 210 ^{CC}		4 MATH 220 ^{CC}	4
MEC-ENGR 130		3 PHYSICS 240 ^{CC}	5
BIOLOGY 102 & 102L (or CHEM 211 & 211L)		4 ENGLISH 225	3
GEFSE 101		3 GECRT-SS 101, 102, 104, 105, 106, 107, 108, or 111	3
ENGLISH 110		3	
		17	15

Second Year

Fall Semester	Credits	Spring Semester	Credits
E&C-ENGR 216		4 E&C-ENGR 228 & E&C-ENGR 229	4
E&C-ENGR 226 & E&C-ENGR 227 ^{CC}		4 E&C-ENGR 276 & E&C-ENGR 277 ^{CC}	4
E&C-ENGR 241 ^{CC}		3 E&C-ENGR 341R ^{CC}	3
PHYSICS 250 ^{CC}		5 E&C-ENGR 348	3
		COMM-ST 110, 140, or 277	3
		16	17

Third Year

Fall Semester	Credits	Spring Semester	Credits
E&C-ENGR 334		3 E&C-ENGR 302 & E&C-ENGR 303 (Satisfies GECRT-SC)	4
E&C-ENGR 376 & E&C-ENGR 377		4 E&C-ENGR 330 & E&C-ENGR 331	4
E&C-ENGR 380 & E&C-ENGR 381		4 E&C-ENGR 428R & E&C-ENGR 429	4
E&C-ENGR 426 & E&C-ENGR 427		4 E&C-ENGR 466	3
		15	15

Fourth Year

Fall Semester	Credits	Spring Semester	Credits
E&C-ENGR 358 or 474		3 E&C-ENGR 403	2
E&C-ENGR 402		3 COMP-SCI 304 (satisfies GECUE requirement)	3
E&C-ENGR 486		3 E&C-ENGR 4XX Major Elective	3
E&C-ENGR 4XX Major Elective		3 E&C-ENGR 4XX Major Elective	3
GECRT-AH 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112, 113, or 114		3 HISTORY 101, 102, or POL-SCI 210	3

GECDV 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, or 211	3
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15	17
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Total Credits: 127

CC Critical Courses provide feedback regarding major fit and help indicate likelihood of successful completion of chosen academic program and degree.

Recommendations to Maintain Progress toward 4-Year Degree Completion

- Completion of the First Semester Experience (FSE) course in first term.
- Early completion of Written Communication, Oral Communication, and Math Pathway requirements.
- Maintain the minimum GPA required for academic Good Standing for your degree program.
- Completion of at least 15 credit hours toward degree each regular semester. *(Students may use the summer to ensure completion of 30 hours per academic year or to lighten Fall and Spring course loads.)*
- Enrollment in Critical Courses as listed on the Major Map is recommended in order to maintain timely progress and completion of prerequisite coursework.
- Regular consultation with Academic Advisor(s) for program(s) of study is strongly recommended and may be required for some degree programs..

Roo Advising (<https://catalog.umkc.edu/roo-advising/>)

Email: rooadvising@umkc.edu

Phone: 816-235-1148

Milestones

Year 1

Fall Semester	Spring Semester
Login to (https://planmydegree.umkc.edu/selfserviceK/general/home.html) PlanMyDegree :	Login to (https://planmydegree.umkc.edu/selfserviceK/general/home.html) PlanMyDegree :
<ul style="list-style-type: none"> • Review your degree audit in PlanMyDegree • Create an academic plan for the Spring semester in PlanMyDegree 	<ul style="list-style-type: none"> • Review your degree audit in PlanMyDegree • Create an academic plan for Year 2 in PlanMyDegree
Schedule appointment with Academic Advisor to review Academic Plan and obtain Spring semester approval to (https://umkc.starfishsolutions.com/starfish-ops/support/login.html) release advising hold .	Schedule appointment with Academic Advisor to review Academic Plan and Year 2 approval to (https://umkc.starfishsolutions.com/starfish-ops/support/login.html) release advising hold .
Complete the (https://catalog.umkc.edu/undergraduate-academic-regulations-information/graduation/civics-exam/) Missouri Higher Education Civics Achievement Exam .	Visit a faculty member during office hours/student drop-in hours to discuss their research.
Activate your (https://www.umkc.edu/career-services/students/handshake.html) Handshake account and take a look at on-campus positions.	Attend a (https://app.joinhandshake.com/edu/appointments/new/) Resume Workshop, Resume Blitz , or have a Resume Appointment with Career Services.
Take one of the following (https://www.umkc.edu/career-services/students/online-resources.html) assessments to get a better understanding of yourself: Clifton Strengths, Focus2 , or Agile Work Profiler .	Attend an (https://www.umkc.edu/career-services/events/) Employer Information Session or Networking in the 816 event.
Attend the (https://www.umkc.edu/career-services/events/) Fall Jobs & Internship Fair or the STEM Fair to understand who is recruiting UMKC students.	Schedule a (https://umkc.joinhandshake.com/stu/appointments/new/) Choosing a Career Path / College Major appointment with a career coach to reflect on your major and see that it is in-line with career paths you are interested in.
Attend (https://www.umkc.edu/get-involved/events/convocation.html) Convocation and Roo Welcome Events .	Attend events and explore (https://roogroups.umkc.edu/home_login/) RooGroups .
Join a (https://roogroups.umkc.edu/home_login/) student organization . (find them via RooGroups)	Attend (https://www.umkc.edu/get-involved/programs/) Leadership Workshops through the Office of Student Involvement.

Attend an **Undergraduate Research Symposium** (August-SUROP or November).

Investigate on-campus (<https://www.umkc.edu/undergraduate-research/student-resources/more-research-opportunities.html>) **Undergraduate Research employment opportunities** (work-study funded UR Associates or grant-funded).

Join a **journal club** or **research-focused student group**, if offered in your dept/unit.

Connect with (<https://www.umkc.edu/msa/scholar-programs/>) **Emerging Research Scholars** in Multicultural Student Affairs (MSA).

Attend UMKC's Annual **Undergraduate Research Symposium** (April).

Enroll in a (<https://www.umkc.edu/undergraduate-research/get-started/>) **EUREKA** class (UMKC Essentials or lower-level in your MAP).

Identify (<https://net2.umkc.edu/intapps/ur-links/>) **potential faculty mentors** in your major (UR-Linked or Dept/Unit Web sites).

Attend a **research lecture** or **creative presentation** in your major.

Thinking Ahead

Explore summer enrollment to get caught up or get ahead.

Explore study abroad opportunities with the Study Abroad and Global Engagement Office. (<https://www.umkc.edu/study-abroad/>)

Explore national competitive awards and scholarships. (<https://www.umkc.edu/career-services/awards/>)

Gain a general understanding of career outcomes for your chosen/desired majors.

Identify 2-3 career options.

Keep track of involvement using UMKC's Co-Curricular Transcript system. (<https://www.umkc.edu/get-involved/programs/co-curricular-engagement.html>)

Year 2

Fall Semester

Login to (<https://planmydegree.umkc.edu/selfserviceK/general/home.html>) **PlanMyDegree**:

- Review your degree audit in **PlanMyDegree**
- Review and continue working on your academic plan in **PlanMyDegree**

Schedule appointment with Academic Advisor to review Academic Plan and obtain Spring semester approval to (<https://umkc.starfishsolutions.com/starfish-ops/support/login.html>) **release advising hold**.

Attend the (<https://www.umkc.edu/career-services/events/>) **Fall Jobs & Internship Fair** or any **career fair** to identify internship opportunities / hiring windows.

Have an employer or Career Coach review your (<https://umkc.joinhandshake.com/stu/appointments/new/>) **resume**.

Consider applying for an (https://app.joinhandshake.com/edu/postings/pending/?page=1&per_page=25 OR <https://www.umkc.edu/research/>) **on/off-campus internship** or **research opportunity**.

Take on a (<https://www.umkc.edu/get-involved/student-organizations/>) **Leadership role** in a student organization or project team.

Attend an **Undergraduate Research Symposium** (August-SUROP or November).

Enroll in a (<https://www.umkc.edu/undergraduate-research/get-started/>) **EUREKA** class (UMKC Essentials or lower-level in your MAP).

Investigate on-campus (<https://www.umkc.edu/undergraduate-research/student-resources/more-research-opportunities.html>) **Undergraduate Research employment opportunities** (work-study funded UR Associates or grant-funded).

Meet with **potential faculty research mentors** in your major.

Investigate off-campus (<https://www.umkc.edu/undergraduate-research/student-resources/more-research-opportunities.html>) **Undergraduate Research opportunities**.

Spring Semester

Login to (<https://planmydegree.umkc.edu/selfserviceK/general/home.html>) **PlanMyDegree**:

- Review your degree audit in **PlanMyDegree**
- Build out your academic plan through graduation in **PlanMyDegree**

Schedule appointment with Academic Advisor to review Academic Plan and ensure all program requirements are planned and obtain plan approval to (<https://umkc.starfishsolutions.com/starfish-ops/support/login.html>) **release advising hold**.

Attend an (<https://www.umkc.edu/career-services/events/>) **Employer Information Session** or **Networking in the 816** event.

Take part in a (<https://www.umkc.edu/career-services/job-shadowing.html>) **job shadowing experience** or a **site visit**.

Attend any (<https://umkc.joinhandshake.com/stu/events/?collection=ALL&categories=5&eventFormat=HYBRID&sort=RELEVANCE>) **fair**.

Connect with (<https://www.umkc.edu/financial-wellness/>) **Financial Wellness Center** and attend financial literacy workshops.

Attend UMKC's **Annual Undergraduate Research Symposium** (April).

Enroll in a (<https://www.umkc.edu/undergraduate-research/get-started/>) **EUREKA** class (UMKC Essentials or lower-level in your MAP).

Develop a plan with your faculty research mentor for years three and four.

Thinking Ahead

Explore summer enrollment to get caught up or get ahead.

Explore study abroad opportunities with the Study Abroad and Global Engagement Office. (<https://www.umkc.edu/study-abroad/>)

Explore national competitive awards and scholarships. (<https://www.umkc.edu/career-services/awards/>)

Identify three internships or research opportunities that match your major and career goals.

Year 3

Fall Semester

Review your degree audit and academic plan in **PlanMyDegree** to ensure you are on track for anticipated graduation date.

Schedule an appointment or confirm enrollment plans as required with academic advisor to (<https://umkc.starfishsolutions.com/starfish-ops/support/login.html>)**release advising hold**.

Attend the (<https://www.umkc.edu/career-services/events/>)**Fall Jobs & Internship Fair** or any career fair to discuss internship opportunities with employers.

Attend a workshop or appointment about (<https://app.joinhandshake.com/edu/appointments/new/>)**Cover Letters and LinkedIn**.

Apply to a minimum of 3 internships that are in-line with your major / career goals. (https://app.joinhandshake.com/edu/postings/pending/?page=1&per_page=25)

Run for (<https://www.umkc.edu/get-involved/student-organizations/>)**executive positions** in student organizations.

Apply for (<https://www.umkc.edu/undergraduate-research/student-grants/>)**on/off-campus research opportunities**, including **SEARCH**.

Enroll in upper-level (<https://www.umkc.edu/undergraduate-research/get-started/>)**EUREKA** Course in your major (investigate senior thesis options in your major).

Conduct research with support of faculty mentor.

Present at UMKC's (<https://www.umkc.edu/undergraduate-research/presentations/>)**Fall Research Symposium**.

Investigate opportunities to present your research at regional or national conferences.

Spring Semester

Review your degree audit and academic plan in **PlanMyDegree** to ensure you are on track for anticipated graduation date.

Schedule an appointment or confirm enrollment plans as required with academic advisor to (<https://umkc.starfishsolutions.com/starfish-ops/support/login.html>)**release advising hold**.

Submit (<https://www.umkc.edu/registrar/academic-programs/graduation/>)**application for graduation** at the completion of 90 hours in Pathway.

Meet with an employer for an informational interview. (<https://cdn.careers.bloch.umkc.edu/wp-content/uploads/sites/130/2021/08/Bloch-Informational-Interviewing.pdf>)

Attend a Networking workshop or a (<https://www.umkc.edu/career-services/events/>)**Networking in the 816** event.

Attend any (<https://umkc.joinhandshake.com/stu/events/?collection=ALL&categories=5&eventFormat=HYBRID&sort=RELEVANCE>)**fair**.

Attend (<https://sgs.umkc.edu/admissions/gradroo.html>)**Grad Roo Fair**.

Apply for (<https://www.umkc.edu/undergraduate-research/student-grants/>)**on/off-campus research opportunities**, including **SUROP**.

Enroll in upper-level (<https://www.umkc.edu/undergraduate-research/get-started/>)**EUREKA** Course in your major (investigate senior thesis options in your major).

Conduct research with support of faculty mentor.

Apply for (<https://www.umkc.edu/undergraduate-research/recognition/>)**Undergraduate Research Fellow** transcript designation (March 1 deadline).

Present at UMKC's (<https://www.umkc.edu/undergraduate-research/presentations/>)**Annual Symposium of Undergrad Research** in April.

Thinking Ahead

Explore summer enrollment to get caught up or get ahead.

Explore national competitive awards and scholarships. (<https://www.umkc.edu/career-services/awards/>)

Establish one to two contacts in your desired industry.

Complete an internship / employment opportunity related to your major / career goals.

Year 4

Fall Semester

Review your degree audit and academic plan in **PlanMyDegree** to ensure all requirements are planned by anticipated graduation date.

Schedule an appointment or confirm enrollment plans as required with academic advisor to (<https://umkc.starfishsolutions.com/starfish-ops/support/login.html>)**release advising hold**.

Attend the (<https://www.umkc.edu/career-services/events/>)**Fall Jobs & Internship Fair** or the **STEM fair** to identify jobs to apply to.

Attend a workshop or appointment about Job Searching. (<https://app.joinhandshake.com/edu/appointments/new/>)

Spring Semester

Review your degree audit and academic plan in **PlanMyDegree** to ensure all requirements are planned by anticipated graduation date.

Take (<https://net3.umkc.edu/intapps/exitem/Exam.aspx>)**UMKC HEIghten Exam**.

Pay close attention to email for information about **Graduation Fair** and **Commencement Exercises**.

Attend a Networking workshop or a (<https://www.umkc.edu/career-services/events/>)**Networking in the 816** event.

Have a (<https://app.joinhandshake.com/edu/appointments/new/>)**mock interview** appointment with a Career Coach.

Attend any (<https://umkc.joinhandshake.com/stu/events/?collection=ALL&categories=5&eventFormat=HYBRID&sort=RELEVANCE>) **fair**.

Serve on one or more **student advisory boards**.

Attend a (<https://www.umkc.edu/commencement/>)**senior send-off** and **Commencement-related events**.

Apply for (<https://www.umkc.edu/undergraduate-research/student-grants/>)**on/off-campus research opportunities**, including **SEARCH**.

Apply to a minimum of 5 jobs or **submit applications** to professional / graduate programs as needed.

Conduct research with support of faculty mentor.

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Request nomination for (<https://www.umkc.edu/undergraduate-research/presentations/undergraduate-research-day-at-the-capitol/>)**Undergraduate Research Day @ the Capitol** (URD@C) from your faculty mentor (November 1 deadline).

Present Your Research at **UMKC's Annual Symposium of Undergraduate Research** (April) or at a regional or national conference in your discipline.

Present Your Research at (<https://www.umkc.edu/undergraduate-research/presentations/>)**Fall UR Symposium** or at a regional or national conference in your discipline.

In Canvas, complete all requirements in your **Graduation Checklist** (will appear in the second 8 weeks of the semester).

Feature research accomplishments on résumé or grad/professional school applications. **Celebrate your awesomeness!**

Thinking Ahead

Successfully obtain full-time work or graduate school admission and report your outcome in 12Twenty. (<https://www.umkc.edu/career-services/students/12twenty.html>)

Give back by speaking at student leadership panels or participating in alumni events.