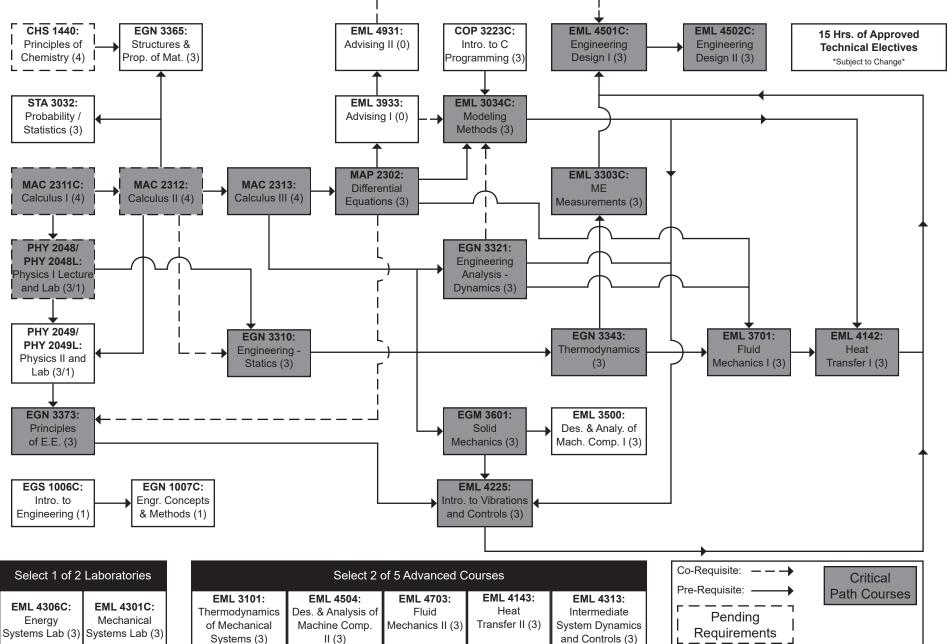
MECHANICAL FLOWCHART: 2022 - 2023 ENGINEERING FLOWCHART: 2022 - 2023



Department of Mechanical and Aerospace Engineering Suggested Program of Study Mechanical Engineering: 2022 - 2023

FIRST YEAR

	Fall (12 credit hours, 16 contact hours)		Spring (15 credit hours, 20 contact hours)		Summer (10 credit hours, 11 contact hours)
	ENC 1101 English Composition I - GEP 1	3(3,0)	ENC 1102 English Composition II - GEP 2	3(3,0)	*MAC 2313 Calc. III w/ Analytic Geometry 4(4,0)
	*MAC 2311C Calc. I w/ Analytic Geometry - GEP 7	4(3,2)	SPC 1608 Oral Communications - GEP 3	3(3,0)	(PR: "C" (2.0) or better in MAC 2312)
	(PR: "C" (2.0) or better in MAC 1114C, MAC 1140C)		*EGN 1007C Engr Concepts & Methods	1(1,2)	*EGN 3310 Engr Analysis Statics 3(3,0)
	Pick One - *CHS 1440 Principals of Chemistry or *CHM 2045C Chemistry Fundamentals I – GEP 11	4(3,1)	*PHY 2048C (or PHY 2048 & PHY 2048L) General Physics Using Calc I – GEP 11	4(3,3)	(PR: "C" (2.0) or better in MAC 2311C, PHY 2048C (or PHY 2048 & PHY 2048L), CR: MAC 2312)
	*EGS 1006C Intro to the Engr Prof	1(1,2)	(PR: "C" (2.0) or better in MAC 2311C)		*COP 3223C Intro to Programming with C 3(3,1)
			*MAC 2312 Calculus II w/ Analytic Geometry (PR: "C" (2.0) or better in MAC 2311C)	4(4,0)	(PR: "C" (2.0) or better in COP 2500C or Appropriate score on the UCF CS Placement Exam)
		SEC	COND YEAR		
	Fall (13 credit hours, 16 contact hours)		Spring (12 credit hours, 12 contact hours)		Summer (9 credit hours, 9 contact hours)
		3(3,0)	*EGN 3373 Principles of Electrical Engr (PR: PHY 2049C (or PHY 2049 & PHY 2049L); CR: MAP 2302,	3(3,0)	*STA 3032 Prob. & Statistics for Engineers – C2 3(3,0) (<i>PR: "C"</i> (2.0) or better in <i>MAC</i> 2312)
	*MAP 2302 Differential Equations	3(3,0)	*EGN 3343 Thermodynamics	3(3,0)	Cultural Foundation – GEP 5 3(3,0)
	(PR: "C" (2.0) or better in MAC 2313)		(PR: "C" (2.0) or better in MAC 2313, EGN 3310)		Social Foundation – GEP 9 3(3,0)
	*PHY 2049C (or PHY 2049 & PHY 2049L) General Physics Using Calc II	4(3,3)	*EGM 3601 Solid Mechanics	3(3,0)	
	(PR: "C" (2.0) or better in PHY 2048C (or PHY 2048 & PHY 20 MAC 2312)	948L),	(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, PHY 2048C (or PHY 2048 & PHY 2048L), EGN 3310)		
	*EGN 3365 Structure & Properties of Materials (PR: "C" (2.0) or better in CHS 1440 or CHM 2045C, MAC 2312	3(3,0)	Historical Foundation – GEP 4	3(3,0)	IMPORTANT NOTICES:
			IRD YEAR		*Grade of "C" (2.0) or better is required in
		11	IKD I LAK		these courses.
	Fall (15 credit hours, 19 contact hours)		Spring (15 credit hours, 15 contact hours)		
	EML 3933 Career/Academic Advising I	0(0,0)	*EML 4142 Heat Transfer	3(3,0)	Must complete Lecture and Lab components of
	(PR: "C" (2.0) or better in MAP 2302)		(PR: "C" (2.0) or better in EML 3701, EML 3034C)		Physics courses with a "C" (2.0) or better:
	*EML 3034C Modeling Methods in MAE (PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, MAP 2048C (or PHY 2048 & PHY 2048L), COP 3223C; CR: EGN 3321, El	3(3,1) 2302, PHY	*EML 4225 Introduction to Vibrations & Controls (PR: "C" (2.0) or better in EGN 3321, EGM 3601, EML 3034C,	3(3,0) EGN 3373)	 PHY 2048C or (PHY 2048 & PHY 2048L) PHY 2049C or (PHY 2049 & PHY 2049L)
	*EML 3701 Fluid Mechanics	3(3,0)	*Approved Technical Elective	3(3,0)	
	(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313,	MAP 2302,	*Approved Technical Elective	3(3,0)	Courses should be taken in the noted term or in a
	PHY 2048C (or PHY 2048 & PHY 2048L), EGN 3321, EGN 334 *EML 3303C Mechanical Engr Measurements	3) 3(2,3)	Social Foundation – GEP 10	3(3,0)	previous term, if your schedule permits, and as
	(<i>PR: "C" (2.0) or better in EGN 3343</i>)	5(2,5)		5(5,0)	long as all prerequisites for that course have been
	*EML 3500 Design & Analysis of Machine Components	3(3,0)			met.
	(PR: "C" (2.0) or better in EGM 3601)				Please meet with your advisor if you have any
	Life Sciences Foundation – GEP 12	3(3,0)			questions regarding your schedule. Do not drop
FOURTH YEAR				any course before discussing this action with your advisor. There may be alternative options.	
	Fall (15 credit hours, 19 contact hours)		Spring (12 credit hours, 19 contact hours)		advisor. There may be alternative options.
	EML 4931 Career/Academic Advising II	0(0,0)	*EML 4502C Engineering Design II	3(2,4)	If you are not ready to begin the Calculus
	(PR: EML 3933, Department Consent)		(PR: EML 4931 and "C" (2.0) or better in EML 4501C)		sequence upon entry to the Mechanical
	*EML 4501C Mechanical Design I	3(2,4)	*Approved Technical Elective	3(3,0)	Engineering curriculum, it is imperative that you
	(PR: "C" (2.0) or better in EGN 3373, EML 3303C, EML 3701, EML 4225 and Department Consent; CR: EML 4931)	EML 4142,	*Laboratory Course (Choose 1 of 2)	3(2,3)	meet with your advisor to plan a personalized
	*Approved Technical Elective	3(3,0)	(See List Below)		program of study. Mathematics and physics are
	*Approved Technical Elective	3(3,0)	*Option Course (Choose 1 of 5)	3(3,0)	cornerstones of a quality engineering program and
	*Option Course (Choose 1 of 5, See List Below)	3(3,0)	(See List Below)		it is important for your academic career that you
	Cultural Or Historical Foundation – GEP 6	3(3,0)			proceed accordingly.

ALL Mechanical Students Will Select 2 of 5 Courses (6 Credit Hours):

EML 4143 Heat Transfer II (PR: "C" (2.0) or better in EML 4142) Fall Only	3(3,0)	EML 3101 Thermodynamics of Mech Systems (<i>PR: "C" (2.0) or better in EGN 3343</i>) Spring Only	3(3,0)
EML 4313 Inter Systems Dynamics & Controls (PR: "C" (2.0) or better in MAP 2302, EGN 3321, EGN 3373, E Fall Only	3(3,0) EML 4225)	EML 4504 Design & Analysis of Mach Comp II (PR: "C" (2.0) or better in EML 3500) Spring Only	3(3,0)
EML 4703 Fluid Mechanics II (PR: "C" (2.0) or better in EML 3701) Fall Only	3(3,0)		

ALL Mechanical Students Will Select 1 of 2 Laboratory Courses (3 Credit Hours):

EML 4301C Mechanical Systems Lab	3(2,3)	EML 4306C Energy Systems Lab	3(2,3)
(PR: "C" (2.0) or better in EML 3303C, EGM 3601; CR: EMI	. 4225)	(PR: "C" (2.0) or better in EML 3303C; CR: EML 4142)	

UNIVERSITY OF CENTRAL FLORIDA COLLEGE OF ENGINEERING AND COMPUTER SCIENCE ADVISING CONTACTS

Office of Academic Affairs:

General Information, General Education, Pending Majors, etc.

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Major Advisors:

Aerospace & Mechanical Engineering

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Ms. Morgan Langrick	ENGR 1 381	407-823-1654	Morgan.Langrick@ucf.edu				
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Mary Smith	ENG 2 211	407-823-2841	Mary.Smith2@ucf.edu				
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Ms. Jenny Shen	HEC 345	407-823-2341	Jenny@cs.ucf.edu				
Ms. Bonnie Esparza	HEC 345	407-823-2341	Bonnie.Esparza@ucf.edu				
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Ms. Charlese Hilton-Brown	HEC 345	407-823-2787	Charlese.Hilton- Brown@ucf.edu				
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Ms. Christin Saro	ENG 2 312	407-823-5021	Christin.Saro@ucf.edu				
Photonics Science and Engineering							
Mr. Mike McKee	CREOL 108	407-823-6376	Mike.McKee@ucf.edu				
Materials Science and Engineering							
Ms. Pamela Ross	ENGR 207	407-823-3806	Pamela.Ross@ucf.edu				

Forms, Policies, & Procedures:

Check out our resources at https://advising.cecs.ucf.edu/



The College of Engineering and Computer Science **does not require** students to have their own personal computer. Students will have access to computers through their department, college, and university here on campus. However, we do feel that having a personal computer can be a great advantage to some of our students. Students that do plan on having their own computer are encouraged to follow the recommendations of the university set forth below.

These recommendations have been developed to achieve the following minimum standards for personal computing at UCF:

A desktop or notebook computer with sufficient resources to run current software products with very good performance.

<u>PC Minimum Requirem</u>ents: Windows 10 Intel i5 Processor 8GB Ram Integrated video Card 512GB HDD or SSD storage

Engineering Specifications: Intel i7 Processor 8GB RAM 2GB dedicated graphics card 1 TB HDD or SSD storage 15" Display *Windows may be required for some applications

Budget Windows 10 i5Processor 8GB RAM Integrated Graphics 512GB HDD or SDD Power User Windows 10 i7Processor 8GB RAM 16GB Graphics <u>Mac</u> OSX High Sierra i7Processor 16GB RAM 2GB Dedicated Graphics

The UCF Technology Product Center can provide recommendations in addition to offering many computers and accessories for purchase, or consulting regarding any of the above hardware or software products. Complete "Network Ready" PC and Macintosh configurations, including pre-loaded application software and network adapters are available.

The UCF Technology Product Center can be found in the Technology Commons, by email <u>tpc@ucf.edu</u> or by phone at (407) 823-5603.