

**4 YEAR FLIGHT PLAN:
Bachelors of Science in Mechanical Engineering
MAC 1140 - Pre-Calculus Algebra**

FAU is committed to your success as a student. One way we define student success is efficient and effective progression through your degree program.

This Flight Plan is a tool to assist you in planning the courses you should complete and the milestones you should reach during your undergraduate studies so you may graduate on time. It is our intention that you complete this planning tool in *collaboration with an academic advisor* to ensure good understanding of:

- Which graduation requirements you have satisfied
- Which Intellectual Foundations and elective courses match your career plans
- How to balance coursework with your other responsibilities (e.g., employment) and optional activities (e.g., mentored research, study abroad, student organizations, leadership)
- How to get the most from your academic experience at FAU

Your academic advisor will help you customize and maintain your Flight Plan during the next four years so that you stay on track for success at FAU. In order to graduate on time, you will need to:

- Complete an average of 30 credit hours per year
- Earn 128 credit hours, at least 45 in the upper division (3000 or 4000 level)
- Earn at least 9 credit hours in summer coursework (or equivalent)

Your advisor will help you identify what additional milestones apply to you, as well as how you may even graduate early or enter an accelerated graduate program. If you have any questions at all about your FAU Flight Plan, feel free to contact any of the following individuals for assistance. They are here to help!

Your Academic Advising Professionals

<i>University Advising Services</i>	
Office Location:	Madison McShane Student Support Services building (SU80), Room 201
Email Address, Phone Number:	advisingservices@fau.edu , 561-297-3064
Additional Information:	www.fau.edu/uas
<i>College/Program Advisor</i>	
Office Location:	Stephanie Gordon Engineering East Building, Room 102
Email Address, Phone Number:	Sgordo57@fau.edu ; 561-297-4530
Additional Information:	
<i>Academic Program Information</i>	
Office Location:	Engineering East Building 96, Room 102
Email Address, Phone Number:	Sgordo57@fau.edu ; 561-297-4530
Additional Program Information:	www.ome.fau.edu
Career/Professional Development	http://www.fau.edu/cdc/students/majors/

Student Name:	Z:
Program:	Date:
Advisor:	Contact:

Flight Plan: Bachelors of Science in Mechanical Engineering

NOTE: Some students may be required to maintain a GPA of 2.75 or higher to remain eligible for scholarships or to be stronger candidates for admission to internships, graduate programs, and professional schools. Please confirm your required GPA with your academic advisor.

YEAR 1			
Semester ___: () Summer (X) Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
ENC 1101 College Writing	3	Confirm/declare intended pre-engineering major	<ol style="list-style-type: none"> 1. Complete Major Knowledge, print out and bring to advising appointment. 2. Create student profile in OWL CareerLink. 3. Meet with your academic advisor.
MAC 1140- Pre-calculus Algebra*	3		
CHM 2045 &L (General Chemistry & Lab) or ENG 2095 &L (Engineering Chemistry & Lab)	4		
EGN 1002- Fundamentals of Engineering	3		
Total	13		
Balance/Other Commitments & Activities:			
Semester ___: () Summer () Fall (X) Spring			
Courses and Credit Hours		Milestones	Advising Tips
ENC 1102 College Writing	3	Maintain good academic standing	<ol style="list-style-type: none"> 1. Develop Individual Learning Plan for career development. 2. Attend Carnival of Majors Fair. 3. Meet with your academic advisor 4. For Foundations of Global Citizenship - choose a course that is a (GP) but NOT a (GRW) 5. For Foundations of Creative Expression – take a Non-(GRW) course.
MAC 1114- Trigonometry*	3		
IFP-Foundations in Society & Human Behavior	3		
IFP-Foundations in Global Citizenship	3		
IFP-Foundations in Creative Expression	3		
Total	15		
Balance/Other Commitments & Activities:			
Semester ___: (X) Summer () Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
MAC 2311- Calculus-Analytic Geometry I	4	Maintain good academic standing	
IFP-Foundations of Society & Human Behavior	3		
Total	7		
Balance/Other Commitments & Activities:			

Student Name:	Z:
Program:	Date:
Advisor:	Contact:

YEAR 2			
Semester ____: () Summer (X) Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
MAC 2312- Calculus-Analytic Geometry II	4	Maintain good academic standing	1. Explore internship opportunities through OWL Career Link. 2. Meet with your academic advisor. 3. For Foundations of Global Citizenship - pick a (GRW) course of either WOH2012&D or PHI2010&D.
PHY 2043-Physics for Engineers 1	3		
PHY 2048L-Physics for Engineers 1 Lab	1		
EGN 1111C- Engineering Graphics	3		
IFP-Foundations in Global Citizenship (GRW)	3		
Total	14		
Balance/Other Commitments & Activities:			
Semester ____: () Summer () Fall (X) Spring			
Courses and Credit Hours		Milestones	Advising Tips
MAC 2313- Calculus Analytic Geometry III	4		1. Declare Major. Make sure GPA in Calculus I & Physics I is 2.5 2. Join Clubs: Race Car 3. Association for Mechanical Engineers (ASME)
PHY 2044- Physics for Engineers 2	3		
PHY 2049L- Physics for Engineers 2 Lab	1		
EGN3311-Statics	3		
EGN 2213- Computer Applications 1	3		
Total	14		
Balance/Other Commitments & Activities:			
Semester ____: (X) Summer () Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
EGN 3331- Strength of Materials	3		
MAP 3305- Engineering Math I	3		
Total	6		
Balance/Other Commitments & Activities:			

Student Name:	Z:
Program:	Date:
Advisor:	Contact:

YEAR 3			
Semester ___: () Summer (X) Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
EGN 3343- Eng. Thermodynamics	3	Maintain good academic standing	1. Attend job/graduate school fairs. 2. Meet with your academic advisor.
EGM 4045- Electro-Mechanical Devices	3		
EGN 3321 Dynamics	3		
STA 4032- Probability & Statistics for Engineers	3		
EGN 3365- Engineering Materials	3		
Total	15		
Balance/Other Commitments & Activities:			
Semester ___: () Summer () Fall (X) Spring			
Courses and Credit Hours		Milestones	Advising Tips
EML 3701- Fluid Mechanics	3		1. Visit with career counselors for job search or graduate school planning.
EML 4220- Vibrations	3		
EML 4534- Computer Applications 2	3		
EML 4380- Dynamics Systems	3		
EGM 4350- Finite Elements	3		
Total	15		
Balance/Other Commitments & Activities:			
Semester ___: (X) Summer () Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
EML 4142- Heat Transfer	3		
EML 3523C- Experimental Methodology	3		
Total	6		
Balance/Other Commitments & Activities:			

Student Name:	Z:
Program:	Date:
Advisor:	Contact:

YEAR 4			
Semester ____: () Summer (X) Fall () Spring			
Courses and Credit Hours		Milestones	Advising Tips
EML 4127- Applied Thermal Fluid Engineering	3	Maintain good academic standing	1. Continue job/graduate school planning. 2. Attend job/graduate school fairs. 3. Check for BS/MS Program. GPA requirement: 3.25 Institution & Overall 4. Meet with your Academic Advisor.
EML 4500- Machine Design I	3		
EML 4521C- Engineering Design I	3		
EML 4930- Technical Elective	3		
EML 4930- Technical Elective	3		
Total	15		
Balance/Other Commitments & Activities:			
Semester ____: () Summer () Fall (X) Spring			
Courses and Credit Hours		Milestones	Advising Tips
EML 4730L- ME Laboratory	3		1. Submit application for Degree 2. Apply to Graduate School 3. For Foundations of Creative Expression - pick one (GRW) course
EML 4262 Machine Design II	3		
EML 4551- Engineering Design II	3		
EML 4930- Technical Elective	2		
IFP-Foundations of Creative Expression (GRW)	3		
Total	14		
Balance/Other Commitments & Activities:			

***-Note--*MAC 1114 Trigonometry and MAC 1140 Pre-calculus Algebra are not used to fulfill math requirement in major.**

You and your advisor will customize your Flight Plan and update it as necessary as you progress through your program.

More Information

Academic Program Requirements and Career/Professional Development Information:
<http://www.fau.edu/cdc/students/majors/>

Student Policies, Services, Resources (Handbook):
<http://www.fau.edu/handbook/>

Registration, Transcripts, Forms, Student Records:
<http://www.fau.edu/registrar/>

Academic Support (Center for Teaching and Learning, Tutoring, Writing Center, Undergraduate Research):
<http://www.fau.edu/ctl/>

Student Financial Aid, Other Financial Services:
<http://www.fau.edu/finaid/>

Students with Disabilities: <http://osd.fau.edu/>

Student Life (Housing, Events & Organizations, Wellness, Counseling, Leadership, Military Affairs, etc.):
<http://www.fau.edu/student/SADepts.php>

Tips for Success

- Meet with your advisor at least once a semester.
- Monitor your progress in your courses; “check-in” with your instructors regularly!

This unofficial guide is to be used in conjunction with regular academic advising appointments. Your Degree Audit is the final and official documentation of degree requirements that have been met. For more information, see your advisor.

- Check your degree audit every semester.
- Stay aware of important deadlines.
- Take advantage of resources FAU has made available to you to help you succeed on your flight.