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AEROSPACE ENGINEERING

CORE GENERAL EDUCATION PROGRAM

Fundamental Studies (6 credits) Academic Writing - ENGL 101 Technical Writing - ENGL 393	<u>3</u> 3
Distributive Studies (18 credits) Lower level courses Humanities and the Arts (9 credits)	<u> </u>
Literature (HL) Arts (HA)	3
Other Humanities (HA, HL, HO, IE*)	3
Social and Behavioral Sciences (9 credits) Social/Political History (SH)_ Behavior/Social Science (SB)_ Behavior/Social Science (SB, IE*)	3 3 3

can be taken in place of a third humanities or behavior/social science course.

Advanced Studies (6 credits) Upper level courses

Must be courses outside of your major department or may include an approved Capstone course in your major

ENAE 482 or ENAE 484 - Systems Design**_ * May be required depending upon credit count. See department advisor for more information.

** CORE Approved Capstone Course.

Diversity (3 credits)

One course from approved list (D) 0/3

MAJOR REQUIREMENTS

Basic Sciences	
CHEM 135 - Chem for Eng	3
PHYS 161 - General Physics I	3
PHYS 260 & 261 - Gen Physics II & Lab	4
PHYS 270 & 271 - Gen Physics III & Lab	4
MATH 140 - Calculus I	4
MATH 141 - Calculus II	4
MATH 240 or 461 - Linear Algebra	4 or 3
MATH 241 - Calculus III	4
MATH 246 - Differential Equations	3

Engineering Sciences	
ENES 100 - Intro to Eng Design_	3
ENES 102 - Mechanics I	3
FNES 220 - Mechanics II	3

Maior	Requirements
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ENAE 100 - Aerospace Eng Profession	<u> </u>
ENAE 200 - Aerospace Eng Profession II	1
ENAE 202 - Aerospace Computing	3
ENAE 283 - Intro to Aerospace Systems	3
ENAE 301 - Dynamics of Aerospace Systems	3
ENAE 311 - Aerodynamics I	3
ENAE 324 - Aerospace Structures	4
ENAE 362 - Aero Instrumentation & Experimentation	3
ENAE 380 - Flight Software Systems	3
ENAE 423 - Vibration & Aeroelasticity	3
ENAE 432 - Control of Aerospace Systems	3
ENAE 464 - Aerospace Eng Lab	3
ENAE 4XX - Elective or ENAE 398H - Honors Research	
Project	3

(See Department Advisor for appropriate elective)

Choose one of the following tracks:

Aeronautical Track

ENAE 403 - Aircraft Flight Dynamics	3
ENAE 414 - Aerodynamics II	3
ENAE 455 - Aircraft Propulsion & Power	3
ENAE 481 - Principles of Aircraft Design	3
ENAE 482 - Aeronautical Systems Design	3
OR	

Space Systems Track	
ENAE 404 - Space Flight Dynamics	3
ENAE 441 - Space Navigation & Guidance	3
ENAE 457 - Space Propulsion & Power	3
ENAE 483 - Princ of Space Systems Design	3
ENAE 484 - Space Systems Design	3

Technical Requirements

ENES232-Thermodynamics	3
Technical Elective - 4XX**	3

^{**} Technical elective must be a technical 300 or 400 level course outside of the department approved by your departmental advisor. MATH 461 or ENME 320 cannot be used.

NOTES

All engineering and technical courses must be completed with a grade of 2.0 or better.

All degree courses must be taken for a regular grade.

A minimum of 124 credits and completion of all degree requirements is required for graduation.

The responsibility for meeting all graduation requirements rests with the student.

Track your degree progress using Degree Navigator www.testudo.umd.edu/dnentry.html

2011-2012 Benchmark_____ Direct Int. Ext.