

# UNIVERSITY OF WASHINGTON

## AERONAUTICAL AND ASTRONAUTICAL GRADUATION REQUIREMENTS

**Credits**

**MATHEMATICS** ----- 24 cr

- MATH 124,125,126           (15 cr)   Calculus with Analytic Geometry
- MATH307                   (3 cr)    Introduction to Differential Equations
- MATH308                   (3 cr)    Matrix Algebra with Applications
- MATH324 \*               (3 cr)    Advanced Multivariable Calculus I

\*Required must be taken no later than Autumn quarter of admission.

**NATURAL WORLD** ----- 25 cr

- CHEM142                   (5 cr)    General Chemistry with Lab
- CHEM 152\*               (5 cr)    General Chemistry with Lab
- or Natural World Elective\* (5 cr) Selection from approved list.
- PHYS 121, 122, 123       (15 cr)    Mechanics, Electromagnetism and Oscillatory Motion, & Waves with Labs

\*CHEM 152 Is not required but, a good choice if considering any other science or engineering majors.

**WRITTEN AND ORAL COMMUNICATIONS** -----8-12 cr

- English Comp.           (5 cr)    Course from the Arts & Science Engl. Comp list
- HCDE 231                 (3 cr)    Introduction to Technical Writing (Prereq:Engl.Comp.)
- HCDE 333+               (4 cr)    Advanced Technical Writing and Oral Presentations+  
Or departmentally approved alternative.

**ENGINEERING FUNDAMENTALS** ----- 16 cr

- AA 210                   (4 cr)    Engineering Statics (Prereqs: MATH 126, PHYS 121)
- AA 260                   (4 cr)    Thermodynamics (Prereq: CHEM 142, PHYS 121,MATH 126)  
Effective Sp. 2010 Thermodynamics will fall under the AA department's management.
- CEE 220                 (4 cr)    Introduction to Mechanics of Materials (Prereq: AA 210)
- ME 230                  (4 cr)    Kinematics and Dynamics (Prereq: ENGR 210)

**VISUAL LITERARY AND PERFORMING ARTS & INDIVIDUALS AND SOCIETIES**----- 24 cr

Minimum 10 crs. Visual, Literary and Performing Arts and 10 crs. minimum Individuals & Societies and 4 additional credits from either area.

Aeronautics & Astronautics 300 Level Required Courses ----- 45 cr

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|------------|------------|------------|------------|------------|---------------|
| AA 320 (3) | AA 310 (4) | AA 301 (4) | AA 302 (4) | AA 331 (4) | AA 332 (4)    |
| AA 321 (3) | AA 311 (4) | AA 322 (3) | AA 312 (4) | AA 360 (4) | AMATH 301 (4) |

**400 LEVEL CORE COURSES**

- AA 410-411 or AA 420-421 Integrated Design Sequence ----- 8 cr
- AA 447 Controls in Aerospace Systems----- 4 cr
- AA 496 Special Topics Seminar----- 1 cr

**AA SENIOR TECHNICAL ELECTIVES** ----- 15 cr

- Free Electives ----- 10-6 cr

**Total Credit Hours** ----- **180 cr**