## Requirement Sheet Key

- = Upper-Division Admission Requirements
* = Must be taken no later than Autumn Quarter of Admission

### Mathematics (24 Credits)

- Math 124 (5cr) – Calculus I
- Math 125 (5cr) – Calculus II
- Math 126 (5cr) – Calculus III
- Math 307(3cr) – Differential Equations [pr: Math 125]
- Math 308 (3cr) – Matrix Algebra [pr: Math 126]
* Math 324 (3cr) – Multivariable Calculus [pr: Math 126]

(AMATH 351/352 may substitute for Math 307/308)

### Sciences (25 Credits)

- Chem 142 (5cr) – General Chemistry with lab
- Chem 152 (5cr) – General Chemistry with lab
  - or NW elective (see departmental adviser)
  (145 series can substitute for 142 series)
- Phys 121 (5cr) – Mechanics with lab [pr: Math 124]
- Phys 122 (5cr) – Electro/Oscillatory with lab [pr: Math 125]
- Phys 123 (5cr) – Waves with lab [pr: Math 126]

### Written & Oral Communications (12 Credits)

- English Comp (5cr) – English Composition
- HCDE 231 (3cr) – Intro to Technical Writing [pr: Engl. Comp]
- HCDE 333 (4cr) – Adv. Tech Writing [pr: HCDE 231]
  - or department approved alternative

### Visual, Literary & Performing Arts/Individuals & Society (VLPA/I&S) (24 Credits)

Minimum 10 credits in VLPA required.
Minimum 10 credits in I&S required.
Remaining 4 credits can be either VLPA or I&S.

### Engineering Fundamentals (16 Credits)

- AA 210 (4cr) – Engineering Statics [pr: Math 126, Phys 121]
- ME 230 (4cr) – Kinematics & Dynamics [pr: AA 210]
- AA 260 (4cr) – Thermodynamics [pr: Math 126, Phys 121, Chem 142]

### A&A Core Courses (58 Credits)

- *AMATH 301(4cr) – Beg. Scientific Computing
- AA 301 (4cr) - Compressible Aerodynamics
- AA 302 (4cr) – Incompressible Aerodynamics
- AA 310 (4cr) – Orbital/Space Flight Mech
- AA 311 (4cr) – Atmospheric Flight Mechanics
- AA 312 (4cr) – Structural Vibration
- AA 320 (3cr) – Aerospace Instrumentation
- AA 321 (3cr) – Aerospace Laboratory I
- AA 322 (3cr) – Aerospace Laboratory II
- AA 331 (4cr) – Aerospace Structures I
- AA 332 (4cr) – Aerospace Structures II
- AA 360 (4cr) – Propulsion
- AA 410 (4cr) – Aircraft Design I
- AA 420 (4cr) – Spacecraft and Space Systems Design I
- AA 411 (4cr) – Aircraft Design II
- AA 421 (4cr) – Spacecraft and Space Systems Design II
- AA 447 (4cr) – Control in Aerospace Systems
- AA 496 (1cr) – Undergraduate Seminar

### A&A Technical Electives (15 Credits)


### Free Electives (6 Credits)

### Total Credits Required for Graduation (180 Credits)

### Early Admission Requirements

1. Early Admission is an option for Autumn Quarter Only.
2. Students must be enrolled at UW-Seattle.
3. Math 124, 125 & 126 or equivalent.
4. 10 credits of physical sciences courses plus the accompanying lab at the level of Chem 142, 152; Phys 121, 122, 123.
5. 5 credits of English Composition.
6. 15 credits must have been completed at UW.

### Application Deadlines

Both early and upper division applications are due July 1st. Students must have completed 75 credits in order to apply to AA for upper-division.

Last revised July 2010
### Freshman – Autumn Quarter
- Math 124 – Calculus I 5
- Chem 142 – Chem & Lab I 5
- English Composition 5

Quarter Total 15

### Freshman – Winter Quarter
- Math 125 – Calculus II 5
- Chem 152 – Chem & Lab II 5
- VLPA/I&S 5
- AA 496 1

Quarter Total 16

### Freshman – Spring Quarter
- Math 126 – Calculus III 5
- Phys 211 – Mechanics & Lab I 5
- VLPA/I&S 5

Quarter Total 15

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### Sophomore – Autumn Quarter
- Math 307 – Diff. Equations 3
- AA 210 – Statics 4
- Phys 122 – Electro & Lab I 5
- HCDE 231 – Tech Writing 3

Quarter Total 15

### Sophomore – Winter Quarter
- Math 308 – Matrix Algebra 3
- ME 230 – Kinematics/Dynamics 4
- Phys 123 – Waves & Lab I 5
- *AMATH 301 – Scientific Computing 4

Quarter Total 16

### Sophomore – Spring Quarter
- AA 260 – Thermodynamics 4
- CEE 220 – Mech. of Materials 4
- VLPA/I&S 5
- Or *Math 324

Quarter Total 13

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### Junior – Autumn Quarter
- AA 310 – Space Flight Mech. 4
- AA 311 – Flight Mechanics 4
- AA 320 – Aerospace Instrumentation 3
- *AMATH 301 – Scientific Computing Or *Math 324 4

Quarter Total 14

### Junior – Winter Quarter
- AA 301 – Compressible Aerodynamics 4
- AA 312 – Structural Vibration 4
- AA 321 – Aerospace Laboratory 3
- AA 331 – Aerospace Structures I 4
- AA 496 – Undergraduate Seminar 1

Quarter Total 16

### Junior – Spring Quarter
- AA 302 – Incompressible Aerodynamics 4
- AA 322 – Aerospace Laboratory II 3
- AA 332 – Aerospace Structures II 4
- AA 360 – Propulsion 4

Quarter Total 15

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### Senior – Autumn Quarter
- HCDE 333 – Adv. Tech Writing 4
- AA 447 – Control in Aerospace Systems 4
- Tech. Elective 3
- Tech. Elective 3

Quarter Total 14

### Senior – Winter Quarter
- AA 410 or 420 – Integrated Design I 4
- Tech. Elective 3
- Tech. Elective 3
- VLPA/I&S 5
- Free Elective 2

Quarter Total 16

### Senior – Spring Quarter
- AA 411 or 421 – Integrated Design II 4
- Tech. Elective 3
- Tech. Elective 3
- VLPA/I&S 5
- Free Elective 3

Quarter Total 15

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**Bold face** courses are required for upper-division admission.

*Must be taken no later than Autumn Quarter of Admission

^Chem 152 Recommended for students considering multiple engineering programs


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-or-

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