

DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS

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4 Year Sample Schedule 11-12

| <u>Autumn Quarter</u> | <u>Winter Quarter</u> | <u>Spring Quarter</u> |
|---|--|---|
| MATH 124 Calculus I 5 | MATH 125 Calculus II 5 | MATH 126 Calculus III 5 |
| CHEM 142 Gen. Chem & Lab 5 | CHEM 152 [^] Gen.Chem & Lab 5 ¹ | PHYS 121 Mechanics & Lab 5 |
| ENGL 131 English Comp. or Equil* 5 ² | or NW Alternative 5 ² | VLPA or I & S 5 |
| Or VLPA or I & S 5 ¹ | ENGL 131 Engl. Comp or Equil. 5 ¹ | Free Elective (ESS 495) 1 ¹ |
| | Or VLPA or I & S 5 ² | |
| | Free Elective (AA 496) 1 ¹ | |
| QUARTER TOTAL 15 ^{1&2} | QUARTER TOTAL 16 ¹⁻¹⁵ ² | QUARTER TOTAL 16 ¹⁻¹⁵ ² |
| <u>Autumn Quarter</u> | <u>Winter Quarter</u> | <u>Spring Quarter</u> |
| MATH 307 Differential Equations 3 | MATH 308 Matrix Algebra w/Apl. 3 | CEE 220 Mech. of Materials 4 |
| AA 210 Statics 4 | ME 230 Dynamics 4 | AA 260 Thermodynamics 4 |
| PHYS 122 Electromag. & Lab 5 | PHYS 123 Waves & Lab 5 | VLPA or I&S 4 ¹ |
| HCDE 231 Intro. Tech. Writing 3 ¹ | AMATH 301 Beg. Sci. Computing 4 ¹ | Free Elective (ESS 495) 2 ² |
| Or VLPA or I & S 2 ² | Or VLPA or I & S 2 ² | HCDE 231 Tech. Wrtg. 3 ² |
| | | Or Free Elective 3 ¹ |
| QUARTER TOTAL 15 ¹⁻¹⁴ ² | QUARTER TOTAL 16 ¹⁻¹⁴ ² | QUARTER TOTAL 15 ¹⁻¹³ ² |
| <u>Autumn Quarter</u> | <u>Winter Quarter</u> | <u>Spring Quarter</u> |
| AA 310 Space Flight Mechanics 4# | AA 301 Comp. Aerodynamics 4 | AA 302 Incomp. Aerodynamics 4 |
| AA 311 Atmos. Flight Mechanics 4# | AA 312 Structural Vibrations 4 | AA 322 Aerospace Lab II 3 |
| AA 320 Aerospace Instruments 3# | AA 321 Aerospace Lab I 3 | AA 332 Aerospace Structures II 4 |
| MATH 324 Adv. Multiv. Calc. I < 3 ^{1&3} | AA 331 Aerospace Structures I 4 | AA 360 Propulsion 4 |
| and/or | AA 496 Undergraduate Seminar 1 | |
| AMATH 301 Beg. Sci. Computing < 4 ^{2&3} 0 ^{1&2} | | |
| QUARTER TOTAL 18 ³⁻¹⁴ ¹⁻¹⁵ ⁻¹¹ # | QUARTER TOTAL 16 ^{1,2&3} | QUARTER TOTAL 15 ^{1,2&3} |
| <u>Autumn Quarter</u> | <u>Winter Quarter</u> | <u>Spring Quarter</u> |
| AA 447 Control Aerospace Systems 4 | AA 410 or 420-Integrated Design 4 | AA 411 or 421-Integrated Design II 4 |
| Technical Elective 3 | Technical Elective 3 | Technical Elective 3 |
| (402,405,430,461) | (AA 400,419,432,440,448) | (AA 441,462,480) |
| Technical Elective 3 | Technical Elective 3 | VLPA-I & S 5 ^{1&2} |
| HCDE 333 Adv. Tech Writing or 4 ¹ | VLPA-I & S 5 ^{1&2} | Free Elective 3 ² |
| or Free Elective 5 ² | Free Elective 1 ¹ | |
| QUARTER TOTAL 14 1 ^{1&3} -15 ² | QUARTER TOTAL 16 ¹⁻¹⁵ ² | QUARTER TOTAL 12 ^{1&3} -15 ² |

Courses shown in **BOLD during the first two years** are required in order to be considered for admission and the grades will be used in the calculation of the technical grade point average. It is recommended that either Math 324 or AMATH 301 be completed before the autumn quarter to decrease the number of credits required for the first quarter in the department. Courses shown in italics are required during the senior year as well as 15 credits of Technical Electives. Please check with the department advisor if problems arise in which you find you are unable to fulfill these requirements. Exceptions are granted to the admission requirements on a case per case basis.

It is expected that you complete a minimum of 14 credits of Visual, Literary and Performing Arts and Individuals and Societies courses during the first two years. The number of credits in each quarter will vary depending on which path to complete them. The free electives needed to graduate depend upon whether or not you take courses that may be recommended but, not required.

- [^] If you are considering other engineering programs CHEM 152 is probably a good choice although it's not required for AA.
- ^{*} English Composition is not available during Autumn quarter unless you are enrolled in a FIG. (Freshman Interest Group)
- [<] Math 324 and AMATH 301 may be taken as late as the autumn quarter of admission but, taking both will create an extremely heavy course load on top of the departmental 11 credit load. It is recommended that one or both be completed before starting the departmental program.
- [#] If both MATH 324 and AMATH 301 have been completed prior to Autumn quarter plan on taking an additional course to maintain your full time student status which requires 12 credits.