

CURRICULUM IN AEROSPACE ENGINEERING

(Fall 2009)



FRESHMAN

| Course | CR | Prerequisite |
|-------------------------------------|----|------------------------|
| __ MATH 151 (3-2) ^{CBK, 1} | 4 | MATH 150 |
| __ ENGR 111 (1-3) ^{CBK, 1} | 2 | MATH 151 ^R |
| __ PHYS 218 (3-3) ^{CBK, 1} | 4 | MATH 151 ^R |
| __ ENGL 104 (3-0) ^{CBK, 1} | 3 | |
| __ UCC Elective ² | 3 | see University catalog |
| __ KINE 198 (0-2) | 1 | |

(17)

| Course | CR | Prerequisite |
|-------------------------------------|----|---------------------------------|
| __ MATH 152 (3-2) ^{CBK, 1} | 4 | MATH 151 |
| __ ENGR 112 (1-3) ^{CBK, 1} | 2 | ENGR 111 |
| __ PHYS 208 (3-3) ^{CBK, 1} | 4 | PHYS 218, MATH 152 ^R |
| __ CHEM 107 (3-0) ^{CBK, 1} | 3 | |
| __ CHEM 117(0-3) ^{CBK, 1} | 1 | |
| __ UCC Elective ² | 3 | see University catalog |
| __ KINE 199 (0-2) | 1 | S/U only |

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SOPHOMORE

| Course | CR | Prerequisite |
|--------------------------------|----|---|
| __ MATH 251 (3-0) ¹ | 3 | MATH 152 |
| __ AERO 201 (3-0) ¹ | 3 | Promotion to AERO, MATH 251 ^R , AERO 211 ^R |
| __ AERO 211 (2-2) ¹ | 3 | Promotion to AERO, MATH 251 ^R |
| __ AERO 213 (2-2) ¹ | 3 | Promotion to AERO, MATH 251 ^R , AERO 211 ^R |
| __ AERO 220 (2-0) ¹ | 2 | Promotion to AERO, AERO 211 ^R |
| __ UCC Electives ² | 3 | see University catalog |

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| Course | CR | Prerequisite |
|--------------------------------|----|---|
| __ MATH 308 (3-0) ¹ | 3 | MATH 251 |
| __ AERO 320 (2-3) ¹ | 3 | AERO 220, MATH 308 ^R |
| __ AERO 212 (2-2) ¹ | 3 | Promotion to AERO, MATH 308 ^R |
| __ AERO 214 (2-2) ¹ | 3 | AERO 211, MATH 308 ^R |
| __ ECEN 215 (2-2) ¹ | 3 | Promotion to AERO, PHYS 208, MATH 308 ^R |

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JUNIOR

| Course | CR | Prerequisite |
|--------------------------------------|----|--|
| __ AERO 301 (3-0) ¹ | 3 | AERO 201, AERO 320 ^R , MATH 308 |
| __ AERO 302 (1-3) ¹ | 2 | AERO 301 ^R |
| __ AERO 304 (4-0) ¹ | 4 | AERO 320 ^R , MATH 308, AERO 213, 214 |
| __ AERO 310 (3-0) ¹ | 3 | AERO 320 ^R , MATH 308, AERO 214 |
| __ UCC Elective ² | 3 | see University catalog |
| __ Communications (3-0) ³ | 3 | ENGL 104 |

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| Course | CR | Prerequisite |
|--------------------------------|----|-------------------------|
| __ AERO 303 (3-0) ¹ | 3 | AERO 301, AERO 212 |
| __ AERO 305 (1-3) | 2 | AERO 304, 310, ECEN 215 |
| __ AERO 306 (3-0) ¹ | 3 | AERO 304 |
| __ AERO 351 (3-0) ¹ | 3 | AERO 303 ^R |
| __ AERO 421(3-0) ¹ | 3 | AERO 301, 310 |
| __ UCC Elective ² | 3 | see University catalog |

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SENIOR

| Course | CR | Prerequisite |
|---|----|-------------------------|
| __ AERO 401 (2-3) ¹ | 3 | AERO 303/306/351/421 |
| __ AERO 423 (3-0) | 3 | AERO 421 |
| __ Computational Methods/Mathematics ⁵ | 3 | see course descriptions |
| __ Design Elective ⁶ | 3 | see course descriptions |
| __ Technical Elective ⁷ | 3 | see course descriptions |

(15)

| Course | CR | Prerequisite |
|--|----|-------------------------|
| __ AERO 402 (0-6) | 2 | AERO 401 |
| __ AERO 452 (3-0) | 3 | AERO 351, MATH 308 |
| __ ENGR/PHIL 482(2-2) ^{W3} | 3 | U3 classification |
| __ Technical Elective ⁷ | 3 | see course descriptions |
| __ Sci or Tech Elec (3-0) ⁴ | 3 | see course descriptions |
| __ UCC Elective ² | 3 | see University catalog |

(17)

TOTAL CREDIT HOURS 134

- Notes:
- CBK To be admitted to upper division, a 2.85 GPR is required in both the common body of knowledge (CBK) courses and all TAMU courses.
 - R Or registration therein (co-requisite).
 - W Designated as TAMU Writing Intensive Course required by UCC committee.
 - 1 Requires a grade of "C" or better (includes all courses that are used as prerequisites for the AERO degree plan courses).
 - 2 To be selected from the University Core Curriculum (UCC). Of the 18 hours shown as UCC electives, 3 must be from visual and performing arts (VPA), 3 from social and behavioral sciences (SBS), 6 from U.S. history, 6 from POLS 206 and 207, and 6 from international and cultural diversity (ICD). The ICD requirement may be met by courses satisfying the VPA, SBS, and history requirements if they are also on the list of ICD courses.
 - 3 To be selected from ENGL 210, ENGL 301, or COMM 205.
 - 4 To be selected from PHYS 222 (PHYS 208, MATH 308^R), PHYS 309 (PHYS 221, MATH 221, MATH 308), ASTR 314 (PHYS 208), or Approved AERO Technical Elective.
 - 5 To be selected from AERO 430 (320) or MATH 401 (MATH 308).
 - 6 AERO 405 (306), 417 (351), 426 (306, 351, 421), 472 (303), or 489 if designated as an AERO design elective.
 - 7 Approved technical electives include: AERO 404 (306), 405 (306), 406, 417 (351), 419 (351), 420 (303, 306, 310), 422 (421), 424 (421, 423), 425 (421), 426 (306, 351, 421), 428 (306, 351, 421), 430 (320), 435 (303), 440 (421), 445 (422), 472 (303), 485H (maximum of 3 hours with prior written approval of department head, senior classification), 489; MEMA 467 (306, 320); ECEN 421 (ECEN 420 or equivalent); ENGR 385 (3 hours). Courses cannot double count for Design Elective, Technical Elective, or Computational Methods/Mathematics.