

# CURRICULUM IN AEROSPACE ENGINEERING

(Catalog #129, 2006-2007)

## FRESHMAN

Course	CR	Prerequisite	Course	CR	Prerequisite
__ MATH 151 (3-2) <sup>CBK, 1</sup>	4		__ MATH 152 (3-2) <sup>CBK, 1</sup>	4	MATH 151
__ ENGR 111 (1-3) <sup>CBK, 1</sup>	2	MATH 151 <sub>R</sub>	__ ENGR 112 (1-3) <sup>CBK, 1</sup>	2	ENGR 111, MATH 152 <sup>R</sup>
__ PHYS 218 (3-3) <sup>CBK, 1</sup>	4	MATH 151 <sub>R</sub>	__ PHYS 208 (3-3) <sup>CBK, 1</sup>	4	PHYS 218, MATH 152 <sup>R</sup>
__ ENGL 104 (3-0) <sup>CBK, 1</sup>	3		__ CHEM 107 (3-3) <sup>CBK, 1</sup>	4	
__ UCC Elective <sup>2</sup>	3		__ UCC Elective <sup>2</sup>	3	
__ KINE 198 (0-2)	1		__ KINE 199 (0-2)	1	S/U only
	(17)			(18)	

## SOPHOMORE

Course	CR	Prerequisite	Course	CR	Prerequisite
__ MATH 251 (3-0) <sup>1</sup>	3	MATH 152	__ MATH 308 (3-0) <sup>1</sup>	3	MATH 251
__ AERO 201 (3-0) <sup>1</sup>	3	MATH 251 <sup>R</sup> , AERO 211 <sup>R</sup>	__ AERO 320 (2-3) <sup>1</sup>	3	MATH 308 <sup>R</sup>
__ ENGR 211 (2-2) <sup>1</sup>	3	MATH 251 <sup>R</sup>	__ ENGR 212 (2-2) <sup>1</sup>	3	MATH 308 <sup>R</sup>
__ ENGR 213 (2-2) <sup>1</sup>	3	MATH 251 <sup>R</sup> , AERO 211 <sup>R</sup>	__ ENGR 214 (2-2) <sup>1</sup>	3	AERO 211, AERO 213 <sup>R</sup>
__ UCC Electives <sup>2</sup>	6		__ ENGR 215 (2-2) <sup>1</sup>	3	AERO 211, MATH 308 <sup>R</sup>
	(18)			(15)	

## JUNIOR

Course	CR	Prerequisite	Course	CR	Prerequisite
__ AERO 301 (3-0) <sup>1</sup>	3	AERO 201/320 <sup>R</sup> , MATH 308, AERO 212/214	__ AERO 303 (3-0) <sup>1</sup>	3	AERO 301
__ AERO 302 (1-3) <sup>1</sup>	2	AERO 301 <sup>R</sup>	__ AERO 305 (1-3)	2	AERO 306 <sup>R</sup> , ECEN 215
__ AERO 304 (4-0) <sup>1</sup>	4	AERO 320 <sup>R</sup> , MATH 308, AERO 213, 214	__ AERO 306 (3-0) <sup>1</sup>	3	AERO 304
__ AERO 310 (3-0) <sup>1</sup>	3	AERO 320 <sup>R</sup> , MATH 308, AERO 214	__ AERO 351 (3-0) <sup>1</sup>	3	AERO 303 <sup>R</sup>
__ UCC Elective <sup>2</sup>	3		__ AERO 421(3-0) <sup>1</sup>	3	AERO 310
__ Tech Writing (3-0) <sup>3</sup>	3	ENGL 104	__ Science Elect (3-0) <sup>4</sup>	3	
	(18)			(17)	

## SENIOR

Course	CR	Prerequisite	Course	CR	Prerequisite
__ AERO 401 (2-3) <sup>1</sup>	3	AERO 303/306/351/421	__ AERO 402 (0-6)	2	AERO 401
__ AERO 423 (3-0)	3	AERO 421	__ AERO 452 (3-0)	3	AERO 351
__ Computational Methods Mathematics <sup>5</sup>	3	MATH 308	__ ENGR/PHIL 482 (2-2) <sup>W</sup>	3	
__ Design Elective <sup>6</sup>	3	see course descriptions	__ Technical Electives <sup>7</sup>	5	see course descriptions
__ Technical Elective <sup>7</sup>	3	see course descriptions	__ UCC Elective <sup>2</sup>	3	
	(15)			(16)	

## 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 or 301.
  - 4 To be selected from PHYS 222, 306, 309 or 314.
  - 5 To be selected from AERO 430 or MATH 401.
  - 6 AERO 405, 417 or 472. Requires a grade of "C" or better in prerequisite courses.
  - 7 Approved technical electives include: AERO 404, 405, 417, 419, 420, 422, 425, 430, 435, 472, 485H (maximum of 3 hours with prior written approval of department head, senior classification), 489; MEMA 467; ELEN 421; ENGR 385 (3 hours); NUEN 401. Requires a grade of "C" or better in prerequisite courses. Courses cannot double count for Design Elective, Technical Elective, or Computational Methods/Mathematics.