

MECHANICAL ENGINEERING - BS in Engineering (BSE)
Ira A. Fulton School of Engineering - Tempe campus

2007-2008 Catalog

School centric admission standards apply for new students and for change of major.

Critical Requirements**Semester 1 (0-15 credits):**

Complete one of the following with a minimum grade of "C":

- ∞ (CHM 114 or 116 or 115) OR MAE 100

Semester 2 (16-30 credits):

Complete the following courses with a minimum grade of "C":

- ∞ CHM 114 or 116 or 115
- ∞ MAE 100
- ∞ MAT 266

Semester 3 (31-45 credits):

Complete the following courses:

- ∞ ENG 102/108 or ENG 105 with a minimum grade of "C"
- ∞ MAT 275 with a minimum grade of "C"
- ∞ PHY 131 & 132 with a minimum grade of "C"
- ∞ MAE 212 with a minimum grade of "C"
- ∞ First Year Composition Requirement (ENG 101/107 AND ENG 102/108 or ENG 105)

Complete Milestone:

- ∞ Complete all skill set courses with a minimum cumulative GPA of 2.80 [CHM 114 or 116; ENG 102 or 108 or 105; MAT 266; 275; PHY 131, 132; MAE 100, 212]

Semester 4 (46-60 credits):

Complete the following courses:

- ∞ MAE 213
- ∞ MAE 240

Major Maps

Critical Requirements in **red/bold**

* “C” minimum required

Semester 1: (0-15 credits)

Semester 2: (16-30 credits)

*ENG 101/107 or ENG 102/108 or ENG 105	3	* ENG 101/107 or ENG 102/108 or ENG 105. If ENG 105 then take HU/SB	3
*MAT 265	3	*MAT 266	3
*MAE 100 or HU C,G,H	3	*PHY 121 & 122	3/1
*CHM 114 or 116 or 115	4	*MAE 100 , if completed take HU C,G,H	3
SB C,G,H	3		
	16		13

Semester 3: (31-45 credits)

Semester 4: (46-60 credits)

*MAT 267	3	MAE 213	3
*MAT 275	3	MAE 240	4
*PHY 131 & 132	3/1	MSE 250	3
*MAE 212	4	*MAT 343	3
MAE 214	1	*CHM 231 or 240	3
Completed <u>MILESTONE</u> and First Year composition Requirement (ENG 101/107 AND ENG 102/108 or ENG 105)	15		16

Semester 5: (46-60 credits)

Semester 6: (61-75 credits)

EEE 202	4	MAE 318	5
MAE 322	4	MAE 342	3
MAE 323	2	BME 111 or MAE 340	3
MAE 384	3	Technical Elective or SB C,G,H	3
BME 111 or MAE 340	3		
	16		14

Semester 7: (76-90 credits)

Semester 8: (106-120)

MAE 488	3	MAE 400	3
SB C,G,H; if completed take Technical Elective	3	MAE 489	3
Technical Elective	3	MAE 491	3
Technical Elective	3	Technical Elective	3
HU C,G,H	3	UD HU/SB	3
	15		15

ASU 101: The ASU Experience

Required for all incoming freshmen students

In addition to the courses listed on the major map, all incoming freshmen students are required to register for ASU 101: The ASU Experience (1 credit).

About the ASU 101 Course:

Students will learn about ASU's mission as the New American University, the importance and benefits of an entrepreneurial approach to problem solving, solutions to sustainability challenges, the importance of social embeddedness, and cultural diversity. Additionally, through various course discussions and assignments, students will examine the concept of academic integrity and its potential impact on their future, gain awareness of the value of engaging in research activities, and learn about taking an interdisciplinary perspective.

Additional information can be found on the web at www.asu.edu/ASU101.

Course Format:

The course is a one-credit, 5-week course and will be offered in a hybrid format (both face-to-face and on-line).