

# Program Minor Policy

## Minor in Aerospace Engineering

A Minor in Aerospace Engineering requires the completion of a minimum of 21 hours including the following courses plus the required prerequisites:

| COURSE                                | TITLE   | HOURS |
|---------------------------------------|---|-------|
| Mandatory courses:                    |   |       |
| AEM 250                               | Mechanics of Materials I (Prereq: AEM 201, MATH 126)            | 3     |
| AEM 264                               | Dynamics (Prereq: AEM 201, MATH 126)                            | 3     |
| AEM 311                               | Fluid Mechanics (Prereq: AEM 201, MATH 227)                     | 3     |
| Select four of the following courses: |   |       |
| AEM 313                               | Aerodynamics (Prereq: AEM 264, AEM 311, MATH 238)               | 3     |
| AEM 341                               | Aerospace Structures (Prereq: AEM 249, AEM 250)                 | 3     |
| AEM 349                               | Applied Numerical Methods (Prereq: AEM 249, MATH 237, MATH 238) | 3     |
| AEM 360                               | Astronautics (Prereq: AEM 311, MATH 238)                        | 3     |
| AEM 368                               | Flight Mechanics (Prereq: AEM 249, AEM 264, MATH 237, MATH 238) | 3     |
| AEM 413                               | Compressible Flow (Prereq: AEM 311, ME 215)                     | 3     |

\*\* Matlab or C++ is required for these four additional courses. Suitability of a student's background will be determined by the AEM department on a case-by-case basis.

## Minors for College of Engineering Students

A student majoring in an engineering program may earn a minor in engineering or another division of the University. Examples are chemistry, mathematics, and physics, which are offered by the College of Arts and Sciences, and the general business minor offered by the Culverhouse College of Commerce and Business Administration. Required courses and electives needed for an engineering or computer science degree may also count toward the minor. For additional information about minors and the courses required in them, see the appropriate sections of the undergraduate catalog.

## Academic Policies for Minors

Academic criteria for a minor are determined by the division and program offering the minor. This includes prerequisite rules, minimum grade point average, and any academic standards. When a minor is optional, a student can withdraw from the minor at any time. Any minor attempted by a College of Engineering student must be completed at the time a Bachelor of Science degree is awarded. A student's graduation will not be delayed to complete an optional minor unless the student notifies the Engineering Registrar prior to the degree certification deadline. Each College of Engineering department program should maintain a list of minor courses in their programs, together with effective dates, even if all courses in a program can be used in the minor.

## Procedure for Minor Selection by Engineering Students

1. Go to MyBama website (<http://mybama.ua.edu>)
2. Select the "Student" tab
3. Click "Change of Major/Minor Application"
4. Click "Change Program"
5. Select a minor from the menu
6. Click "Continue"

## Minor in Engineering for Other Students

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses. The Type 1 minor is a specialized program in any of the College's engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an advisor for a

student desiring this type of minor. The Type 2 minor is a general minor in engineering. The associate dean of engineering appoints an advisor for a student pursuing a Type 2 minor, which requires a minimum of 18 hours in courses chosen from a list available from the associate dean for academic programs.