

# Associate in Engineering (A10500)

## Full-Time Program Guide

### Program Notes:

- ENG 111 must be taken before ENG 112.
- MAT 171 must be taken before MAT 172; MAT 271 must be taken before MAT 272. (Some students may use MAT 271-272 as their required math course sequence; most students use MAT 171-MAT 172.)
- CHM 151 must be taken before CHM 152.

**Financial Aid Eligibility:** Yes

| Course #                | Course Name   | Credit Hrs.                | Term Offered | Term Completed | Grade |
|-------------------------|---|----------------------------|--------------|----------------|-------|
| <b>Fall Semester</b>    |   |                            |              |                |       |
| ACA 122                 | College Transfer Success                                      | 1                          | F, S, SU     |                |       |
| CHM 151                 | General Chemistry I   | 4                          | F, S, SU     |                |       |
| ENG 111                 | Writing and Inquiry (1 <sup>st</sup> 8 weeks)                 | 3                          | F, S, SU     |                |       |
| ENG 112                 | Writing/Research in the Disciplines (2 <sup>nd</sup> 8 weeks) | 3                          | F, S, SU     |                |       |
| ECO 251                 | Principles of Microeconomics                                  | 3                          | F, S, SU     |                |       |
| XXX                     | Social/Behavioral Science Elective                            |                            | F, S, SU     |                |       |
| XXX                     | Elective  | 3                          |              |                |       |
| <b>Semester Totals:</b> |   | <b>17</b>                  |              |                |       |
| <b>Spring Semester</b>  |   |                            |              |                |       |
| MAT 271                 | Calculus I  | 4                          | S            |                |       |
| EGR 150                 | Introduction to Engineering                                   | 2                          | S            |                |       |
| DFT 170                 | Engineering Graphics  | 3                          | S            |                |       |
| CHM 152                 | General Chemistry II  | 4                          | S            |                |       |
| <b>Semester Totals:</b> |   | <b>13</b>                  |              |                |       |
| <b>Fall Semester</b>    |   |                            |              |                |       |
| MAT 272                 | Calculus II   | 4                          | F            |                |       |
| PHY 251                 | General Physics I   | 4                          | F            |                |       |
| ENG 241 or 242          | British Literature I or II                                    | 3                          | F, S, or SU  |                |       |
| XXX                     | Humanities/Fine Arts Elective                                 | 3                          | F, S, or SU  |                |       |
| XXX                     | Engineering Elective  | 3-4                        | F, S, SU     |                |       |
| <b>Semester Totals:</b> |   | <b>17-18</b>               |              |                |       |
| <b>Spring Semester</b>  |   |                            |              |                |       |
| MAT 273                 | Calculus III  | 4                          | S            |                |       |
| PHY 252                 | General Physics II  | 4                          | S            |                |       |
| XXX                     | General Education Electives                                   | XXX                        | F, S, SU     |                |       |
| <b>Semester Totals:</b> |   | <b>13+</b>                 |              |                |       |
| <b>Program Totals:</b>  |   | <b>Minimum of 60 hours</b> |              |                |       |

| Course #  | Course Name                  | Credit Hrs. | Term Offered |
|---|------------------------------|-------------|--------------|
| <b><i>Humanities/Fine Arts Elective: Choose 1</i></b> |                              |             |              |
| ART 111   | Art Appreciation             | 3           | F, S, SU     |
| ART 114   | Art History Survey I         | 3           | F            |
| ART 115   | Art History Survey II        | 3           | S            |
| COM 231   | Public Speaking              | 3           | F, S, SU     |
| MUS 110   | Music Appreciation           | 3           | F, S         |
| MUS 112   | Intro. to Jazz               | 3           | F, S         |
| <b><i>Social/Behavioral Science: Choose 1</i></b>     |                              |             |              |
| HIS 111 or  | World Civilizations I or     | 3           | F, S or      |
| HIS 112   | World Civilizations II       | 3           | F, S         |
| HIS 131   | American History I           | 3           | F, S, SU     |
| HIS 132   | American History II          | 3           | S            |
| PSY 150   | General Psychology           | 3           | F, S, SU     |
| SOC 210   | Intro. to Sociology          | 3           | F, S, SU     |
| <b><i>General Education Electives: Choose 1</i></b>   |                              |             |              |
| BIO 111   | General Biology I            | 4           | F, S, SU     |
| COM 231   | Public Speaking              | 3           | F, S, SU     |
| ECO 252   | Principles of Macroeconomics | 3           | F, S, SU     |
| HUM 110   | Technology & Society         | 3           | S            |
| PHI 240   | Intro. to Ethics             | 3           | F, S, SU     |
| <b><i>Engineering Electives: Choose 1</i></b>         |                              |             |              |
| BIO 111   | General Biology I            | 4           | F, S, SU     |
| COM 231   | Public Speaking              | 3           | F, S, SU     |
| CSC 134   | C++ Programming              | 3           | F, S         |
| CSC 151   | JAVA Programming             | 3           | S            |
| HUM 110   | Technology & Society         | 3           | S            |
| PED 110   | Fit & Well For Life          | 3           | F, S         |