# Chemical Engineering, A.S.

This plan of study was developed as a guideline for students who plan to transfer to an Alabama public four-year institution and pursue a degree in Chemical Engineering. Students who plan to transfer to an out-of-state or private institution should consult that institution and plan their program of study in consultation with engineering faculty advisors and/or counselors. Some courses in this program are not available at all College locations. Upon completion of courses listed below, the transcript will reflect either an AA or AS degree without reference to the specific program of study.

* ENGINEERING EXCEPTIONS: For all engineering majors, the AGSC voted to allow the hour requirements in Area II to be reduced from 12 SH to 9 SH and in Area IV to be reduced from 12 SH to 9 SH. This reduction allowed for additional hours (6 semester hours) to be added to Area V for engineering majors so that required math and science courses could be taken prior to transfer that would meet national engineering accreditation standards (ABET). The ACCS has adopted this exception. Engineering students may take 9 hours in Area II, 9 hours in Area IV, and 25 to 29 hours in Area V.

NOTES

* Must complete a 6-semester-hour sequence in Literature or History.

* For Humanities, Social/Behavioral Sciences and Chemistry Electives: Some 4-year institutions require a specific course or courses in the indicated areas. Check the STARS Guide and Area V page of your intended transfer institution for additional guidance. Transfer credits may not exceed 50% of those required for the 4-year degree.

* ORI 101 or 105, CIS 146: Courses are not included in the STARS Articulation Guide but are applicable toward the associate degree.

* 12 semester hours in Areas II and IV are required for the associate degree.

**Type:** Associate in Science

# Area I: Written Composition

| Item # | Title | Credits |
|---|---|---|
| ENG 101 | English Composition I | 3 |
| ENG 102 | English Composition II | 3 |

# Area II: Humanities and Fine Arts

*(Selecting SPH 106 or 107 will meet associate degree requirement.)*

| Item # | Title | Credits |
|---|---|---|
| | ENG 251 or ENG 252 or ENG 261 or ENG 262 or ENG 271 or ENG 272 | 3-6 |
| | ART 100 or ART 203 or ART 204 or MUS 101 | 3 |
| | HUM 101 or HUM 102 or PHL 206 or REL 100 or REL 151 or REL 152 or SPA 101 or SPA 102 or SPH 106 or SPH 107 | 3 |

# Area III: Natural Sciences and Mathematics

| Item # | Title | Credits |
|---|---|---|
| PHY 213 | General Physics I with Calculus | 4 |
| PHY 214 | General Physics II with Calculus | 4 |
| MTH 125 | Calculus I | 4 |

# Area IV: History, Social and Behavioral Sciences

*Must complete a 6-semester-hour sequence in Literature or History.*

| Item # | Title | Credits |
|---|---|---|
| | HIS 101, 102, 121, 122, 201, 202 | 3-6 |
| | ANT 200 or ECO 231 or ECO 232 or GEO 100 or POL 211 or PSY 200 or PSY 210 or SOC 200 | 3 |

# Area V: Pre-Professional, Pre-Major, and Elective Courses

| Item # | Title | Credits |
|---|---|---|
| | ORI 101 or ORI 105 | 1-3 |
| CIS 146 | Microcomputer Applications | 3 |
| | Electives as Determined by Transfer Institution (Chemical Engineering) | 21-23 |
| | **Total credits:** | **61-65** |