

Associate of Science – Engineering
 (Recommended Map for Students Starting in MTH202 Calculus II)

Name: _____ ID#: _____ Date: _____

This academic map is a semester-by-semester schedule of courses based upon the AS degree requirements as outlined in the academic catalog. In order for you to graduate in two years, specific milestones, courses and other requirements (e.g. prerequisites) must be met in a timely manner. To ensure that milestone courses are completed, it is important that you, when possible and appropriate, enroll in any needed developmental coursework during the first semester(s) of enrollment. Additionally, keep in mind this map does not substitute for academic advisement. If you have questions, see your advisor and refer to the MACC website for current information.

Prior Credits:

MTH201 Analytic Geometry & Calculus I (5)

| Taken | Course | Semester | Hours |
|-------|--|---|-----------|
| | | First Semester | |
| | LAL101 | ^Composition I | 3 |
| | MTH202 | ^Analytic Geometry & Calculus II | 5 |
| | PHY121 | ^General Chemistry I | 5 |
| | SKL101 | College Orientation | 1 |
| | | | 14 |
| | | Second Semester | |
| | HST105 or HST106 or PSC105 | American History to 1865 or American History from 1865 or Introduction to American Government | 3 |
| | LAL102 | ^Composition II | 3 |
| | MTH203 | ^Analytic Geometry & Calculus III | 5 |
| | PHY201 | ^Engineering Physics I | 5 |
| | | | 16 |
| | | Third Semester | |
| | ECN101 or ECN102 | Macroeconomics or Microeconomics | 3 |
| | | <u>Engineering Elective</u> | 3 |
| | | <u>Engineering Elective (MTH250 Differential Equations – Recommended)</u> | 3 |
| | PHY202 | ^Engineering Physics II | 5 |
| | | | 14 |
| | | Fourth Semester | |
| | | <u>Free Elective (General Education or Engineering)</u> | 3 |
| | | <u>Free Elective (General Education or Engineering)</u> | 3 |
| | | <u>General Education Elective</u> | 3 |
| | | <u>General Education Elective</u> | 3 |
| | | | 12 |
| | | Associate of Science Degree | 61 |

****Shaded courses must be completed in the sequence indicated. Failure to complete these courses in the appropriate sequence will result in extension of time to complete the AS degree.**

^Please refer to the college catalog and course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).

General Education Elective Options for AS Degree

Please refer to the Elective Course Transfer Guide for requirements specific to individual transfer degree programs.

| MACC Course | MU Equivalent | S&T Equivalent |
|--|--|--|
| Humanities/Fine Arts | | |
| ART 101 Art Survey & Appreciation I | AR_H_A 1110 Ancient & Medieval Art | ART 1180 Art Appreciation |
| ART 102 Art Survey & Appreciation II | AR_H_A 1120 Renaissance Thru Modern A | |
| DRM 120 Theatre Appreciation | THEATR HUM Humanities Tran Cred | THEATRE 1190 Theatre via Video |
| LAL 120 Am Lit Survey to 1870 | ENGLISH 2300 Studies in American Lit | ENGLISH 1221 Amer Lit: 1600 to 1865 |
| LAL 121 Am Lit Survey 1870- Present | | ENGLISH 1222 Amer Lit: 1865 to Pres |
| LAL 125 African-American Literature | ENGLISH 2400 Intro African Diaspora Lit | General Literature Elective |
| LAL 150 English Lit. Survey to 1750 | ENGLISH 2200 Studies in British Lit | ENGLISH 1211 Brit Lit I: Begin/1800 |
| LAL 151 English Lit. 1750-Present | | ENGLISH 1212 Brit Lit II: 1800/Pres |
| LAL 251 Science Fiction | ENGLISH LIT Literature Transfer Credit | *HUMU 2510 Humanities- Uppr Level |
| LAL 275 Classical Mythology | CL_HUM 1060 Classical Mythology | General Literature Elective |
| MUS 102 Music Appreciation | MUSIC_NM 1310 Masterpiece Western Mus | MUSIC 1150 Music Understanding & Appr |
| MUS 105 Music of America | MUSIC_NM HUM Humanities Tran Cred | General Humanities Elective |
| MUS 205 World Music | MUSIC_NM 1313 Intro to World Mus | General Humanities Elective |
| PHI 150 Intro to Philosophy | PHIL 1000 Gen Intro to Philosophy | PHILOS 1105 Intro to Philosophy |
| PHI 151 Intro to Logic | PHIL 1200 Logic & Reasoning | PHILOS 1115 Introduction to Logic |
| PHY 152 Intro to Ethics | PHIL 1100 Introduction to Ethics | General Humanities Elective |
| PHI 153 Bioethics | PHIL 1150 Introductory Bioethics | General Humanities Elective |
| PHI 251 Religions of World | *REL_ST 2100 Religions of the World | PHILOS 1175 Comparative Relig Phil |
| Social/Behavioral Sciences | | |
| ECN 101 Macroeconomics | ECONOM 1015 Principles of Macroeconomics | ECON 1200 Principles of Macroeconomics |
| ECN 102 Microeconomics | ECONOM 1014 Principles of Microeconomics | ECON 1100 Principles of Microeconomics |
| GEO 101 World Geography I | GEOG 1200 Regions & Nations World 2 | HIST 2100 World Regional Geography |
| HIST 101 Western Civ I | HIST 1500 Foundations of Western Civ | HISTORY 1100 Early Western Civ |
| HST 105 American History to 1865 | HIST 1100 Survey American History to 1865 | HISTORY 1300 American History to 1877 |
| HST106 American History from 1865 | HIST 1200 Survey American History Since 1865 | HISTORY 1310 American History Since 1877 |
| PSC 105 Introduction to American Govt. | POL_SC SCC_ST Pol Sci State Law Req | POL SCI 1200 American Government |
| PSY 101 Gen Psychology | PSYCH 1000 General Psychology | PSYCH 1101 General Psychology |
| SOC 101 Sociology | SOCIOL 1000 Intro to Sociology | General Social Science Elective |
| Communications | | |
| SKL 101 Public Speaking | COMMUN 1200 Public Speaking | SPMS 1185 Principles of Speech |

Engineering Elective Options for AS Degree

Please refer to the Elective Course Transfer Guide for requirements specific to individual transfer degree programs.

| MACC Course | MU Equivalent | S&T Equivalent |
|--------------------------------|--------------------------------------|--|
| AMD 112 Comp Aided Design | ENGINR 11000 Engr Graphics Fundmn | GNCR 1XXX General Credit |
| CIT 105 Programming I | INFOTC 1040A Intro Prob Solve & Prog | CS 1971,1981 Intro to Prgm Method & Lab |
| CIT 205 Programming II | INFOTC 1040A Intro Prob Solve & Prog | CS 1570,1580 Intro to Prgm & Lab |
| EGN 201 Statics | ENGINR 1200 Stats & Elem Strn Matr | CIV ENG 2200 Statics |
| IND 105 Fluid Power Principles | MISC_ELEC (Miscellaneous Elective) | GNCR 1XXX General Credit |
| MTH 250 Differential Equations | MATH 4100 Differential Equations | MATH 3329 Elem Diff Eqn & Matrix Algebra |
| PHY 122 General Chemistry II | CHEM 1330 College Chemistry 2 | CHEM 1320, 1510 Gen Chem II & Qual Anl |
| PHY 163 Geology | GEOL 1100 Principles of Geol W/Lab | GEOLOGY 1111 Intro to Physical Geology |