

Montgomery College Middle College Completion Pathway: Four Year Pathway
General Engineering Degree Preparation (MC²) – A.S.: 410

| Subject | High School Credit | MC Credits | General Engineering Degree Preparation (MC ²) – A.S.: 410 | | | | | AP Score Eq. or Note | | |
|---|-------------------------------------|------------|---|--|--|---|--|---|---|---|
| | | | Summer | Grade 9 MCPS/MC Credits | Summer | Grade 10 (on HS Campus) | Grade 11 (on HS Campus) | | Summer | Grade 12 (On HS & MC Campuses) |
| English | 4 | 6 | | Honors English 9, 1/0 | | Honors English 10, 1/0 | AP English Language & Composition, 1/3 (ENGL Found.) | | AP English Literature & Composition (HUMD), 1/3 | Language: 4 or 5 = ENGL101 & ENGL102 or ENGL109; Literature: 4, 5 = ENGL190 |
| Math | 4 | 15 | | Algebra 2 or higher, 1/0 | | Honors Pre- Calculus or higher, 1/0 | AP Calculus BC (MATF), 1/8 | Sem 1: MATH280; 1/4; Sem 2: MATH282 or higher; 0/3 | | Calculus BC: 4 or 5 = MATH181 & MATH182 |
| Science, or Natural Science | 4 | 15 | | Honors 9th Grade Science, 1/0 | | Honors 10th Grade Science, 1/0 | AP Chemistry (Double Period), 1/4 | 12th Grade Science Sem 1: PHYS262, 0/4; Sem 2: PHYS263, 0/4 | | Chemistry: 4 = CHEM131 |
| Social Studies, or Humanities/ Electives | 3 (US History, NSL, World) | 6 | AP Prep for AP US History Students | AP U.S. History (Double Period), 1/3 | AP Prep for AP NSL students who did not take AP US Hist | AP NSL (BSSD), 1/3 | AP World History (if needed) 1/3; otherwise, World History, 1/0 | | | US 3 = HIST201(HUMD), 4, 5 = HIST201 (HUMD) & HIST202 (HUMD); NSL: 3 = POLL101 |
| Arts, Fine Arts | 1 | 3 | | | | MCPS Digital Art, 1/0 | Sem 1: MUSC117 (ARTD), 0/3 | | | |
| Behavioral and Social Sciences | 1 | 3 | | | | | | | AP Psychology (BSSD), 1/3 | Psych 4,5 = PSYC102 (BSSD) |
| Physical Education, Health | 1.5 | 0 | | | | Sem 1: MCPS Health, .5/0 | | | MCPS Phys. Ed. (if needed), 1/0 | |
| **Program Completer | 2 | 15 | | For. Language or Adv. Tech, 1/0; | | For. Language or Adv. Tech, 1/0; | Sem 2: ENES100 (GEEI), 0/3; Sem 2: ENEE140, 0/3 | ENES102, 0/3 | Sem 1: ENEE or ENES Elective, 0/3;; Sem 2: ENEE or ENES Elective, 0/3 | |
| Technology Education | 1 | 0 | | MCPS Tech Course, 1/0 | | | | | | |
| Elective | 1 | 0 | | | | Sem 2: College Test Prep, .5/0 | Sem 1: 1 Elective, .5/0 | | | |
| Courses Taken | 22 | 63 | | 6 or 7 | 1 | 8 | 8 | 1 | 4 or 5 per semester | |

* Includes credits earned from AP exam scores

† DUAL credit meeting both MCPS and MC requirements. MCPS credit used solely toward MCPS graduation requirements MC credit used solely toward MC degree requirements MC credit awarded with qualifying exam score NOTE: A Maximum of 30 credits transferable through exam (AP, IB, CLEP) *** Option: MCPS Technology can be taken online during a summer session and be replaced by MCPS Physical Education Class. Online course fees apply.