

ASU Bachelor of Science in Civil Engineering  
Howard College Co-Enrollment Degree Plan

| <b>Howard College &amp; Angelo State Co-Enrollment Degree Plan: Pre-Calculus</b> |   |            |  |  |  |           |
|--|---|------------|--|--|--|-----------|
| <b>Howard College Courses</b>  |   |            |  |  |  |           |
| <b>Howard College Fall Semester Year 1</b>                                       |   |            | <b>sch</b>                             | <b>Howard College Spring Semester Year 1</b> |  |           |
|  |   |            |  | <b>sch</b>                                   |  |           |
| MATH 2412  | Pre-Calculus  | 4          |  | MATH 2413                                    | Calculus I   | 4         |
| ENGL 1301  | Composition I   | 3          |  | ENGL 1302                                    | Composition II   | 3         |
| HIST 1301  | United States History I   | 3          |  | HIST 1302                                    | United States History II   | 3         |
| BIOL 1308/1108   | Biology for Non-Science Majors I                                  | 4          |  | CS 1336                                      | Computer Science   | 3         |
| EDUC 1100  | Learning Frameworks   | 1          |  | Core Course                                  | *Creative Arts   | 3         |
|  | <b>TOTAL</b>  | <b>15</b>  |  |  | <b>TOTAL</b>   | <b>16</b> |
|  |   |            |  |  |  |           |
| <b>Howard College Fall Semester Year 2</b>                                       |   |            | <b>sch</b>                             | <b>Howard College Spring Semester Year 2</b> |  |           |
|  |   |            |  | <b>sch</b>                                   |  |           |
| <i>ENGR 1201</i>   | <i>Intro to Engineering @ ASU Howard Elective</i>                 | <i>2</i>   |  | <i>ENGR 1304</i>                             | <i>Engineering Graphics @ ASU Howard Elective</i>                | <i>3</i>  |
| MATH 2414  | Calculus II (online-Acadeum?)                                     | 4          |  | MATH 2415                                    | Calculus III (online-Acadeum?)                                   | 4         |
| CHEM 1311/1111   | General Chemistry I<br><i>*Discuss ASU ITV/distance options</i>   | 4          |  | PHYS 2325/2125                               | University Physics I<br><i>*Discuss ASU ITV/distance options</i> | 4         |
| GOVT 2305  | Federal Government  | 3          |  | GOVT 2306                                    | Texas Government   | 3         |
| Core Course  | *Language, Philosophy & Culture                                   | 3          |  |  |  |           |
|  | <b>TOTAL</b>  | <b>16</b>  |  |  | <b>TOTAL</b>   | <b>14</b> |
|  |   |            |  |  |  |           |
| <b>Summer</b>  |   |            |  |  |  |           |
| <b>ASU Link</b>  |   | <b>sch</b> |  |  |  |           |
| <b>ENGR 1308</b>   | Introduction to Geomatics   | <b>3</b>   |  |  |  |           |
|  | <b>TOTAL</b>  | <b>3</b>   |  |  |  |           |
|  |   |            |  |  |  |           |
| <b>Howard College Fall Semester Year 3</b>                                       |   |            | <b>sch</b>                             | <b>ASU Spring Semester Year 3</b>            |  |           |
|  |   |            |  | <b>sch</b>                                   |  |           |
| <i>ENGR 2301</i>   | <i>Engineering Statics @ ASU Howard Elective</i>                  | <i>3</i>   | <b>T<br/>R<br/>A<br/>N<br/>S<br/>F</b> | ENGR 2302                                    | Engineering Dynamics   | 3         |
| PHYS 2326/2126   | University Physics II<br><i>*Discuss ASU ITV/distance options</i> | 4          |  | ENGR 2318                                    | Economics & Sust. of Infra.                                      | 3         |
| SPCH 1315  | Public Speaking   | 3          |  | ENGR 2332                                    | Mechanics of Materials   | 3         |

|             |                               |    |                |           |                              |    |
|-------------|-------------------------------|----|----------------|-----------|------------------------------|----|
| Core Course | *Social & Behavioral Sciences | 3  | <b>E<br/>R</b> | MATH 3324 | Applied Math for Engineering | 3  |
|             | TOTAL                         | 13 |                | ENGR 3305 | Probability & Risk           | 3  |
|             |                               |    |                |           | TOTAL                        | 15 |
|             |                               |    |                |           |                              |    |

\*See core curriculum course options

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|--|-----------------------------|----|------------|-----------------------------------|-----------------------------------|----|------------|
| <b>Angelo State Courses</b>  |                             |    |            |                                   |                                   |    |            |
| <b>ASU Fall Semester Year 4</b>  |                             |    | <b>sch</b> | <b>ASU Spring Semester Year 4</b> |                                   |    | <b>sch</b> |
| CENG 3311  | Transportation Intro        | 3  |            | CENG 3341                         | Geotech Intro                     | 3  |            |
| ENGR 3404  | Fluid Mechanics             | 4  |            | CENG 3352                         | Hydrology & Hydraulics            | 3  |            |
| ENGR 3331  | Engineering Materials       | 3  |            | CENG 4xxx                         | Advanced Design Elective          | 3  |            |
| CENG 3361  | Structural Analysis         | 3  |            | ENGR 4201                         | Professional Engineering Practice | 2  |            |
|  |                             |    |            | CENG 3xxx                         | Engr/Math/Science Elective        | 3  |            |
|  | TOTAL                       | 13 |            |                                   | TOTAL                             | 14 |            |
|  |                             |    |            |                                   |                                   |    |            |
| <b>Senior Year</b>   |                             |    |            |                                   |                                   |    |            |
| <b>ASU Fall Semester Year 5</b>  |                             |    | <b>sch</b> |                                   |                                   |    |            |
| CENG 4380  | CE Senior Design            | 3  |            |                                   |                                   |    |            |
| CENG 3351  | Environmental Intro         | 3  |            |                                   |                                   |    |            |
| CENG 4xxx  | Advanced Design Elective    | 3  |            |                                   |                                   |    |            |
| CENG 4xxx  | Advanced Technical Elective | 3  |            |                                   |                                   |    |            |
|  | TOTAL                       | 12 |            |                                   |                                   |    |            |
|  |                             |    |            | <b>BSCE Complete Total</b>        |                                   |    | <b>131</b> |