



|                  | <b>YOUR CLASS SCHEDULE</b>   | <b>ACADEMIC ADVISING</b>   | <b>ENRICHING EXPERIENCES</b>  | <b>LIFELONG SUCCESS</b>   |
|------------------|--|--|---|---|
| <b>FRESHMAN</b>  | <ul style="list-style-type: none"> <li>Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; PHYS 2420; then Civil Engineering and core curriculum courses.</li> </ul>                   | <ul style="list-style-type: none"> <li>Meet your PREE Advisor and attend the Intro Compliance session during orientation.</li> <li>Declare your Construction Engineering and Management major once you register for MATH 1411 (Calculus I) or higher.</li> <li>Consult the CE Advising Sheet.</li> </ul>   | <ul style="list-style-type: none"> <li>Explore student organizations at Gold Rush.</li> <li>Experience a new culture with a student exchange program.</li> <li>Network with peers and organize a study group at the ASCE office.</li> <li>Cultivate leadership and teamwork skills at TCM Day.</li> </ul>   | <ul style="list-style-type: none"> <li>Discover ACES tutoring resources.</li> <li>Anticipate challenges, advocate for yourself, and seek help.</li> <li>Explore tutoring resources.</li> </ul>  |
| <b>SOPHOMORE</b> | <ul style="list-style-type: none"> <li>Take CE 2315, Statics; CE 2326, Economics for Engineers and Scientists; and PHYS 2421, if not already completed.</li> <li>Examine the critical path flow chart.</li> </ul>            | <ul style="list-style-type: none"> <li>Meet with your PREE Advisor before registration.</li> <li>Discuss your degree plan with your PREE Advisor.</li> <li>Ask your PREE advisor about the Rising Junior Exam.</li> <li>Consult the Construction Engineering and Management Advising Sheet.</li> </ul>   | <ul style="list-style-type: none"> <li>Join the American Society of Civil Engineers.</li> <li>Explore professional engagement opportunities with SWE and MAES/SHPE.</li> <li>Discover community involvement opportunities in your field with the Center for Civic Engagement.</li> <li>Strive for high grades to be eligible for introduction into Chi Epsilon, the Civil Engineering Honor Society.</li> </ul> | <ul style="list-style-type: none"> <li>Visit the Career Center Satellite to develop a resume and investigate employment opportunities.</li> <li>Cultivate healthy lifestyle habits by visiting the Student Recreation Center.</li> </ul>  |
| <b>JUNIOR</b>    | <ul style="list-style-type: none"> <li>Focus on your upper division Civil Engineering classes.</li> <li>Examine the critical path flow chart.</li> </ul>   | <ul style="list-style-type: none"> <li>Participate in the mandatory Construction Engineering and Management Group Advising Session.</li> <li>Discuss your degree plan with your advisor.</li> <li>Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE).</li> <li>Consult the Construction Engineering Advising Sheet.</li> </ul> | <ul style="list-style-type: none"> <li>Explore unique faculty-led travel opportunities with Engineering Global Programs.</li> <li>Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja.</li> <li>Cultivate global awareness at events sponsored by the Office of International Programs.</li> </ul>  | <ul style="list-style-type: none"> <li>Join the Fundamentals of Engineering Examination (FE) Study Group.</li> <li>Ask a Peer Career Advisor about internship opportunities.</li> <li>Revisit the Career Expo and the Engineering &amp; Science Expo.</li> <li>Explore graduate programs in Engineering.</li> </ul> |
| <b>SENIOR</b>    | <ul style="list-style-type: none"> <li>Take CE 4188 (Senior Design I) in the Fall.</li> <li>Take CE 4288 (Senior Design II) in the Spring.</li> <li>Complete your major requirements and any remaining electives.</li> </ul> | <ul style="list-style-type: none"> <li>Meet with your Civil Engineering advisor before registration.</li> <li>Consult the Civil Engineering Advising Sheet.</li> <li>Review your graduation audit with the Graduation Coordinator.</li> </ul>  | <ul style="list-style-type: none"> <li>Cultivate a leadership role with your student organization.</li> <li>Expand your community engagement efforts by joining the Ninjaneer Service Learning Program.</li> <li>Explore research opportunities with COURI.</li> </ul>  | <ul style="list-style-type: none"> <li>Take the Fundamentals of Engineering (FE) Exam.</li> <li>Visit the Career Center Satellite for mock interviews and resume review.</li> <li>Apply for graduate school or explore career opportunities.</li> </ul>   |

UPDATED 06/29/18

### EDGE ADVANTAGES:

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

### CAREER POSSIBILITIES:

- Vice President/ Operational Manager
- Sr. Project Manager/ Project Manager
- Superintendent
- Project Engineer/ Asst. Project Engineer
- Transportation Engineer
- Project Manager
- Estimator
- Safety
- Quality Control/ Quality Assurance
- Procurement



Bachelor of Science in  
**CONSTRUCTION ENGINEERING & MANAGEMENT**  
 MAJOR MAP CHECKLIST | 2019-2020



Last Name \_\_\_\_\_

First Name \_\_\_\_\_ M.I. \_\_\_\_\_

Catalog: 2017-18  
 Expires: 08/01/2024

UTEP ID \_\_\_\_\_

**NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation**

| A Core Curriculum (44 SCH)<br>(minimum of "C" grade required)   |                                | Semester Completed | Final Grade | SCH | Sub # |
|---|--------------------------------|--------------------|-------------|-----|-------|
| <b>1 Communication (6 credit hours required)</b>  |                                |                    |             |     |       |
| RWS 1301*   | Rhetoric and Composition I     |                    |             |     |       |
| RWS 1302*   | Rhetoric and Composition II    |                    |             |     |       |
| <b>2 Mathematics (4)</b>  |                                |                    |             |     |       |
| MATH 1411*  | Calculus I                     |                    |             |     |       |
| <b>3 Life and Physical Sciences (7)</b>   |                                |                    |             |     |       |
| CHEM 1305*  | General Chemistry              |                    |             |     |       |
| CHEM 1105*  | Laboratory for CHEM 1305       |                    |             |     |       |
| GEOL 1211*  | Principles of Earth Sciences   |                    |             |     |       |
| GEOL 1111*  | Principles of Earth Sci - Lab  |                    |             |     |       |
| <b>4 Language, Philosophy, and Culture (3)<br/>Select and circle one</b>  |                                |                    |             |     |       |
| ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350* |                                |                    |             |     |       |
| <b>5 Creative Arts (3)<br/>Select and circle one</b>  |                                |                    |             |     |       |
| ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*                                      |                                |                    |             |     |       |
| <b>6 American History (6)</b>   |                                |                    |             |     |       |
| HIST 1301*  | History of the U.S. to 1865    |                    |             |     |       |
| HIST 1302*  | History of the U.S. since 1865 |                    |             |     |       |
| <b>7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution</b>                                |                                |                    |             |     |       |
| POLS 2310*  | Introduction to Politics       |                    |             |     |       |
| POLS 2311*  | American Govt. & Politics      |                    |             |     |       |
| <b>8 Social and Behavioral Sciences (3)</b>   |                                |                    |             |     |       |
| CE 2326*  | Econ. For Engrs & Scientists   |                    |             |     |       |
| <b>9 Component Area Option (6)</b>  |                                |                    |             |     |       |
| UNIV 1301*  | Foundations of Engineering     |                    |             |     |       |
| COMM 1302*  | Business/Profession. Comm.     |                    |             |     |       |

| C Major: Required Lower Division Courses (27 SCH) |  | Semester Completed | Final Grade | SCH | Sub # |
|---|--|--------------------|-------------|-----|-------|
| CE 1301*  | Civil Engineering Fundamentals           |                    |             |     |       |
| CE 1313*  | Engineering Measurements                 |                    |             |     |       |
| CE 2315*  | Statics                                  |                    |             |     |       |
| CE 2334*  | Mechanics of Materials                   |                    |             |     |       |
| CE 2335 <sup>a</sup>                              | Geological Engineering                   |                    |             |     |       |
| CE 2343*  | Structural Analysis I                    |                    |             |     |       |
| CE 2375*  | Introduction to Thermal-Fluid Science    |                    |             |     |       |
| CE 2373   | Eng. Probability and Statistical Methods |                    |             |     |       |
| ACCT 2301*  | Principles of Accounting I               |                    |             |     |       |

| D Major: Required Upper Division Courses (43 SCH) |  | Semester Completed | Final Grade | SCH | Sub # |
|---|--|--------------------|-------------|-----|-------|
| CE 3334   | Construction Management                |                    |             |     |       |
| CE 3336   | Civil Engineering Materials            |                    |             |     |       |
| CE 3348   | Geotechnical Engineering               |                    |             |     |       |
| CE 4339   | Geostructural Design                   |                    |             |     |       |
| BLAW 3301   | Legal Environment of Business          |                    |             |     |       |
| FIN 3310  | Business Finance                       |                    |             |     |       |
| CE 4386   | Construction Law and Ethics            |                    |             |     |       |
| CE 4382   | Construction Cost Analysis and Bidding |                    |             |     |       |
| CE 4387   | Construction Scheduling                |                    |             |     |       |
| CE 4385   | Construction Internship                |                    |             |     |       |
| CE 4358   | Construction Methods and Materials     |                    |             |     |       |
| CE 4158   | Construction Methods and Materials Lab |                    |             |     |       |
| CE 4389   | Construction Safety                    |                    |             |     |       |
| CE 4354   | Electrical and Mechanical Construction |                    |             |     |       |
| CE 4188   | Senior Design I                        |                    |             |     |       |
| CE 4288   | Senior Design II                       |                    |             |     |       |

**NOTES:**

a -- GEOL 3321, Geology for Engineers, may be substituted.

\* -- C or better required

\*\* -- official substitution form available at <http://engineering.utep.edu/plaza/AcademicForms/index.html>

| B Foundational Math & Science (6 SCH) |              | Semester Completed | Final Grade | SCH | Sub # |
|---------------------------------------|--------------|--------------------|-------------|-----|-------|
| MATH 1312*                            | Calculus II  |                    |             |     |       |
| MATH 2313*                            | Calculus III |                    |             |     |       |

**BSCEM Total Hours 120**

| SUBSTITUTIONS** |                                     |                                    |   |   |
|-----------------|-------------------------------------|------------------------------------|---|---|
| Sub #           | Course on degree plan to substitute | Institution where course was taken | Name of Course as it appears on UTEP Transcript | Course as it appears on UTEP Transcript |
| 1               |                                     |                                    |   |   |
| 2               |                                     |                                    |   |   |
| 3               |                                     |                                    |   |   |
| 4               |                                     |                                    |   |   |

| APPROVALS:    |            |
|---------------|------------|
| ADVISOR _____ | DATE _____ |
| CHAIR _____   | DATE _____ |

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