**Curriculum Alignment: Resources for Assessment**

In which courses or activities is relevant information covered?

Which courses or activities provide student learning opportunities for the program learning outcome?

(For each course indicate at which level the outcome is covered – Introduced (I), Developed (D) and Mastery (M).)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Program Courses | PLO1  a | PLO2  b | PLO3  c | PLO4  d | PLO5  e | PLO6  f | PLO7  g | PLO8  h | PLO9  i | PLO10  j | PLO11  k | PLO12  l | PLO13  m | PLO14  n |
| AM 316 | M |  | I |  |  |  |  |  |  |  | I |  |  |  |
| AM 317 | D | D | D | D | D |  |  |  |  |  | D | D |  |  |
| AM 410 | M |  | M |  | M |  |  |  |  |  |  | M |  |  |
| CE101/L | I |  | I | I | I | I | I | I | I | I | I |  |  |  |
| CE240 | D |  |  |  |  |  |  |  |  |  | D |  |  |  |
| CE280/L | D |  |  |  |  |  |  |  |  |  | D |  |  |  |
| CE308/L | D | D |  | D | D |  | D |  |  |  | D | D |  |  |
| CE315/L | D |  |  | D | I |  | D |  |  |  | I |  |  | D |
| CE335/L | M |  |  |  | M |  |  |  |  |  |  | M |  |  |
| CE340 | M |  | D |  |  |  |  |  |  |  |  | M | D |  |
| CE408 | M | M | M | M | D |  | D |  |  |  | M | M |  |  |
| CE426/L | D | M |  |  |  |  | D |  |  | I |  | M |  |  |
| CE438 | M |  | M |  |  | M |  |  |  |  |  | M |  |  |
| CE439 | M | M |  | M |  |  | M |  |  |  |  | M |  |  |
| CE460/L | M | M | M | M | M |  | D |  |  |  | D | M |  |  |
| CE488A/L | M | M |  | M |  | M | M | M | M | M | M |  | M | D |
| CE488B | M | M |  | M |  | M | M | M | M | M | M |  | M | D |
| CE526 | M |  | M |  |  |  | M |  |  |  |  | M | D |  |

Graduates of Civil Engineering shall have:

1. an ability to apply knowledge of mathematics, science, and engineering
2. an ability to design and conduct experiments, as well as to analyze and interpret data
3. an ability to design a system, component, or process to meet desired needs
4. an ability to function on multi-disciplinary teams
5. an ability to identify, formulate, and solve engineering problems
6. an understanding of professional and ethical responsibilities
7. an ability to communicate effectively
8. the broad education necessary to understand the impact of engineering solutions in a global and societal context
9. a recognition of the need for, and an ability to engage in life-long learning
10. a knowledge of contemporary issues
11. an ability to use the techniques, skills, and modem engineering tools necessary for engineering practice.
12. a proficiency in a minimum of four (4) recognized major civil engineering areas
13. an ability to perform civil engineering design by means of design experiences integrated throughout the professional component of the curriculum;
14. an understanding of professional practice issues such as: procurement of work-, bidding versus quality based selection processes; how the design professionals and the construction professions interact to construct a project; the importance of professional licensure and continuing education; and/or other professional practice issues.