

# Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

BS Civil Engineering

Spring 2020

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| <b>Outcome</b>   | <b>Related Foundational Studies or Graduate Goal</b>             |
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| Apply the latest technology and engineering tools to solve technical problems in the practice of civil engineering technology and related interdisciplinary fields |  |
| 1.1 An appropriate mastery of the knowledge, techniques, skills, and modern tools of the CVET discipline   |  |
| 1.2 Ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology                                     |  |
| 1.3 An ability to conduct, analyze, and interpret experiments, and apply experimental results to improve processes   |  |
| 1.4 An ability to apply creativity in the design of systems, components, or processes appropriate to the CVET program educational objective                        |  |
| 1.5 An ability to identify, analyze, and solve technical (close-ended analysis and open-ended design) problems   | Foundational Studies 2: Critically evaluate the ideas of others. |
| Remain technically current and adapt to rapidly changing technologies through self-improvement with continuous learning or post-graduate education                 |  |

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| 2.1 A recognition of the need for and an ability to engage in lifelong learning  |   |
| 2.2 A commitment to quality, timeliness, and continuous improvement  |   |
| Demonstrate independent thinking, self-management, and effective functioning in team-oriented and open-ended activities in an industrial environment |   |
| 3.1 An ability to function effectively on teams  |   |
| Communicate effectively in oral, written, and graphical forms  |   |
| 4.1 An ability to communicate effectively through engineering drawings, written reports, or oral presentations                                       | Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing. |
| Perform ethically and professionally in business, industry, and society  |   |
| 5.1 An ability to understand professional, ethical, and social responsibilities  |   |
| Develop leadership skills and responsibility in their chosen career field  |   |
| 6.1 An ability to function effectively on teams  |   |
| Understand global issues and the impact of technology and engineering solutions on the society and environment                                       |   |
| 7.1 A respect for diversity and a knowledge of contemporary professional, societal, and global issues  |   |