New York City College of Technology, CUNY

CURRICULUM MODIFICATION PROPOSAL FORM

This form is used for all curriculum modification proposals. See the [Proposal Classification Chart](http://openlab.citytech.cuny.edu/collegecouncil/files/2014/08/2013-10-09-Proposal_Classification_Chart.pdf) for information about what types of modifications are major or minor. Completed proposals should be emailed to the Curriculum Committee chair.

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| **Title of Proposal** | **CMCE 2020 Update of Program Outcomes** |
| **Date** | **11/5/20** |
| **Major or Minor** | **Minor** |
| **Proposer’s Name** | **Melanie Villatoro** |
| **Department** | **Construction Management and Civil Engineering Technology** |
| **Date of Departmental Meeting in which proposal was approved** | **11/4/20** |
| **Department Chair Name** | **Melanie Villatoro** |
| **Department Chair Signature and Date** |  |
| **Academic Dean Name** | **Gerarda Shields** |
| **Academic Dean Signature and Date** |  |
| **Brief Description of Proposal**  (Describe the modifications contained within this proposal in a succinct summary. More detailed content will be provided in the proposal body. | **Program Learning Outcomes are being rephrased for:**  **AAS Civil Engineering Technology**  **AAS Construction Management Technology**  **BTECH Construction Engineering Technology** |
| **Brief Rationale for Proposal**  (Provide a concise summary of why this proposed change is important to the department. More detailed content will be provided in the proposal body). | These learning outcomes remain the same; however they were rephrased to match the language set forth by the currents standards provided by the program accrediting body, ABET. |
| **Proposal History**  (Please provide history of this proposal: is this a resubmission? An updated version? This may most easily be expressed as a list). | **New Proposal** |

Please include all appropriate documentation as indicated in the Curriculum Modification Checklist.

For each new course, please also complete the New Course Proposal and submit in this document.

Please submit this document as a single .doc or .rtf format. If some documents are unable to be converted to .doc, then please provide all documents archived into a single .zip file.

**ALL PROPOSAL CHECK LIST**

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| --- | --- |
| Completed CURRICULUM MODIFICATION FORM including: |  |
| * Brief description of proposal | x |
| * Rationale for proposal | x |
| * Date of department meeting approving the modification | x |
| * Chair’s Signature | x |
| * Dean’s Signature | x |
| Evidence of consultation with affected departments  List of the programs that use this course as required or elective, and courses that use this as a prerequisite. | N/A |
| Documentation of Advisory Commission views (if applicable). | N/A |
| Completed [Chancellor’s Report Form](http://openlab.citytech.cuny.edu/collegecouncil/files/2014/08/2013-10-09-Chancellor_Report_Quick_Reference_Guide1.doc). | x |

**EXISTING PROGRAM MODIFICATION PROPOSALS**

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| Documentation indicating core curriculum requirements have been met for new programs/options or program changes. |  |
| Detailed rationale for each modification (this includes minor modifications) |  |

**The following revisions are proposed for the AAS in Civil Engineering Technology**

**Program: Civil Engineering Technology**

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| --- | --- |
| **FROM:** | **TO:** |
| ~~Student Learning Outcomes -  General~~   1. ~~an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;~~ 2. ~~an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;~~ 3. ~~an ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments;~~ 4. ~~an ability to function effectively as a member of a technical team;~~ 5. ~~an ability to identify, analyze, and solve narrowly defined engineering technology problems;~~ 6. ~~an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;~~ 7. ~~an understanding of the need for and an ability to engage in self-directed continuing professional development;~~ 8. ~~an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity; and~~ 9. ~~a commitment to quality, timeliness, and continuous improvement.~~ | Student Learning Outcomes -  General  (1)  an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline; (2) an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline; (3) an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature (4) an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and (5) an ability to function effectively as a member of a technical team. |
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**Rationale:** These learning outcomes remain the same; however they were rephrased to match the language set forth by the currents standards provided by the program accrediting body, ABET.

**The following revisions are proposed for the AAS in Construction Management Technology**

**Program: Construction Management Technology**

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| **FROM:** | **TO:** |
| ~~Student Learning Outcomes -  General~~   1. ~~an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;~~ 2. ~~an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;~~ 3. ~~an ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments;~~ 4. ~~an ability to function effectively as a member of a technical team;~~ 5. ~~an ability to identify, analyze, and solve narrowly defined engineering technology problems;~~ 6. ~~an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;~~ 7. ~~an understanding of the need for and an ability to engage in self-directed continuing professional development;~~ 8. ~~an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity; and~~ 9. ~~a commitment to quality, timeliness, and continuous improvement.~~ | Student Learning Outcomes -  General  (1)  an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline; (2) an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline; (3) an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature (4) an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and (5) an ability to function effectively as a member of a technical team. |

**Rationale:** These learning outcomes remain the same; however they were rephrased to match the language set forth by the currents standards provided by the program accrediting body, ABET.

**The following revisions are proposed for the BTECH in Construction Engineering Technology**

**Program: Construction Engineering Technology**

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| **FROM:** | **TO:** |
| Student Learning Outcomes -  General   1. ~~an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defned engineering technology activities;~~ 2. ~~an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;~~ 3. ~~an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;~~ 4. ~~an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;~~ 5. ~~an ability to function effectively as a member or leader on a technical team;~~ 6. ~~an ability to identify, analyze, and solve broadly-defined engineering technology problems;~~ 7. ~~an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;~~ 8. ~~an understanding of the need for and an ability to engage in self-directed continuing professional development;~~ 9. ~~an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;~~ 10. ~~a knowledge of the impact of engineering technology solutions in a societal and global context; and~~ 11. ~~a commitment to quality, timeliness, and continuous improvement.~~ | Student Learning Outcomes -  General  (1) an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline; (2) an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline; (3) an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature; (4) an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and (5) an ability to function effectively as a member as well as a leader on technical teams. |

**Rationale:** These learning outcomes remain the same; however they were rephrased to match the language set forth by the currents standards provided by the program accrediting body, ABET.