New York City College of Technology, CUNY

CURRICULUM MODIFICATION PROPOSAL FORM

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| --- | --- |
| **Title of Proposal** | **Minor Career & Technology Teacher Education Curriculum Modification**  |
| **Date** | **9/27/2018** |
| **Major or Minor** | **Minor** |
| **Proposer’s Name** | **Wm. Edward Roberts** |
| **Department** | **Career & Technology Teacher Education** |
| **Date of Departmental Meeting in which proposal was approved** | **4/20/2018** |
| **Department Chair Name** | **Dr. Wm. Edward Roberts** |
| **Department Chair Signature and Date** | **Edward Roberts Signature_Page_12018-09-27** |
| **Academic Dean Name** | **Dr. David Smith** |
| **Academic Dean Signature and Date** |  **2019-09-27** |
| **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. | **We propose to move EDU 4440 and CST 2403 to the core requirement, and move EDU 1420 and EDU 2440 to an elective.**  |
| **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).  | **This will align our courses with the need for robotics and programing teachers for NY City Schools curriculum and after-school programs as required by NYCDOE Regulations** |
| **Proposal History**(Please provide history of this proposal: is this a resubmission? An updated version? This may most easily be expressed as a list). | **This is a new request for a minor change.**11/07/2018 updated changes |

**ALL PROPOSAL CHECK LIST**

|  |  |
| --- | --- |
| 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 departmentsList 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**

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

**Section AIII: Changes in Degree Programs**

**AIII.1. The following revisions are proposed for the Career and Technical Teacher Education Department**

**Program: BSEd in Technology Teacher Education**

**Program Code: 23981**

**Effective Date: Spring 2019**

|  |  |
| --- | --- |
| **FROM:**  | **TO:**  |
| **GENERAL EDUCATION CORE1 (45-47 crs.)****Required Core (13 credits)** **I – Required Core1 (4 courses, 14-15 credits)****English Composition (2 courses, 6 credits)**ENG 1101 English Composition I 3ENG 1121 English Composition II 3 **Mathematical and Quantitative Reasoning (1 course, 4 credits)**MAT 1275 College Algebra and Trigonometry or higher2 4**Life and Physical Sciences (1 course, 4-5 credits)**Select one of the following courses 4-5PHYS 1111 Principles of Science IPHYS 1433 General Physics I: Algebra Based PHYS 1441 General Physics I: Calculus Based **II – Flexible Core (6 courses, 19-~~20~~ credits)**In addition to the required course listed below, select one course from each of the other four areas; plus, one additional course from any of the five areas; no more than two courses may be selected from any discipline. 15 **World Cultures and Global Issues**~~Any Approved Course~~ **US Experience in its Diversity**Any Approved Course **Individual and Society**Any Approved Course **Creative Expression**Any Approved Course **Scientific World**Select one of the following courses 4-5PHYS 1112 Principles of Science II PHYS 1434 General Physics II: Algebra Based PHYS 1442 General Physics II: Calculus Based One additional course from any category**III – College Option requirement3 (12 credits)**One course in Speech/Oral Communication COM 1330 Public Speaking or higher 3One interdisciplinary Liberal Arts and Sciences course (any approved course) 3Two additional liberal arts courses to reach a minimum total of 42 credits in general education. In meeting their general education requirements overall, students must take at least one advanced liberal arts courseor two sequential courses in a foreign language. 6**Writing Intensive Requirement**Students at New York City College of Technology must complete two courses designated WI for the associate level, one from GenEd and one from the major; and two additional courses designated WI for the baccalaureate level, one from GenEd and one from the major.**Program-Specific Degree Requirements 59 Credits****Pedagogical Core (26 credits)**EDU 2362 Methods of Teaching in Career and Technology  Education l 3EDU 2455 Methods & Materials for Special Needs Students 3EDU 3410 Technology Education Foundations and  Curriculum Development 3EDU 3630 Assessing Student Learning Outcomes 3EDU 3640 Computers in Education 3EDU 3670 Methods of Literacy Instruction 3EDU 3681 Internship in Career & Technology Teacher Education. 2EDU 4600 Professional Development Seminar 2EDU 4871 Supervised Student Teaching in  Career and Technology Education 4**Content Core (33 credits)**EDU 1400 Design and Drafting I 2~~EDU 1420~~~~4~~ ~~Construction Systems 3~~EDU 2400 Design and Drafting II 2EDU 2410 Survey of Technological Development 3~~EDU 2440~~~~5~~ ~~Manufacturing Systems 3~~EDU 24606 Communications Systems 4EDU 3400 Technological Systems I 3EDU 34207 Electronic Systems 4EDU 3440 Transportation Systems 3EDU 4480 Principles of Engineering 3~~EDU 4440~~~~8~~ ~~Electronic and Robotic Systems 3~~or~~CST 2403 Introductory C++ Programming Language 3~~**Program-Specific Liberal Arts and Science Requirements**MAT 1375 Precalculus9 4PHYS 1111 Principles of Science IorPHYS 1433 General Physics I: Algebra BasedorPHYS 1441 General Physics I: Calculus Based Met as GenEdPHYS 1112 Principles of Science II orPHYS 1434 General Physics II: Algebra Based orPHYS 1442 General Physics II: Calculus Based Met as GenEdPSY 3502/EDU 3610 Human Learning and Instruction 3PSY 2501/EDU 2610 Child and Adolescent Development 3SOC 2380 Sociology of Education. 3COM 1330 Public Speaking Met as GenEdARB, ASL, CHN, FREN, or SPA (Elementary) 10 3LIB 1201 Research and Documentation  in the Information Age 3**Total program-specific required and elective courses 59****Total NYSED Liberal Arts/Science credits 64-66** **TOTAL CREDITS REQUIRED FOR THE DEGREE 123-124*****1 This program has received a waiver to require particular courses in the Common Core. Students who do not take these courses to meet their GenEd requirements may not be able to complete the degree program within the regular number of credits.*** ***2 Students without the requisite math background to enter MAT 1275 must take MAT 1175 in preparation; this will increase the number of required credits for the degree by 4.*** ***3 Complete lists of liberal arts and sciences courses and advanced liberal arts courses, as well as semester-specific lists of interdisciplinary courses and writing intensive courses, are available online at the City Tech Pathways website. The number of elective credits will vary depending upon students’ choices in the Core and College Option areas; choosing a higher credit-hour course may increase the number of credits to graduate by 1.*** ***~~4 Acceptable substitutes for EDU 1420 are CMCE 1114 and ENT 1110~~*** ***~~5 An acceptable substitute for EDU 2440 is both MECH 1101 + MECH 1201~~*** ***6 An acceptable substitutes for EDU 2460 is COMD 1167*** ***7 Acceptable substitutes for EDU 3420 are EET 1122, ETN 1102, or ETN 1302*** ***8 An acceptable substitute for EDU 4440 is ETN 1302.*** ***9 Students who have already satisfied this requirement may take any elective course to reach a minimum of 123 credits.*** ***10 Students can choose to take introductory language courses to satisfy some areas in the Flexible Core/College Option areas. Those who do not may need 3-6 additional credits to complete the degree program by taking one or two of the electives listed in the program.***  | **GENERAL EDUCATION CORE1 (45-47 crs.)****Required Core (13 credits)** **I – Required Core1 (4 courses, 14-15 credits)****English Composition (2 courses, 6 credits)**ENG 1101 English Composition I 3ENG 1121 English Composition II 3 **Mathematical and Quantitative Reasoning (1 course, 4 credits)**MAT 1275 College Algebra and Trigonometry or higher2 4**Life and Physical Sciences (1 course, 4-5 credits)**Select one of the following courses 4-5PHYS 1111 Principles of Science IPHYS 1433 General Physics I: Algebra Based PHYS 1441 General Physics I: Calculus Based **II – Flexible Core (6 courses, 19-22 credits)** In addition to the required course listed below, select one course from each of the other four areas; plus, one additional course from any of the five areas; no more than two courses may be selected from any discipline. 15 **World Cultures and Global Issues**ARB, ASL, CHN, FREN, or SPA (Elementary or higher)**US Experience in its Diversity**Any Approved Course **Individual and Society**Any Approved Course **Creative Expression**Any Approved Course **Scientific World**Select one of the following courses 4-5PHYS 1112 Principles of Science II PHYS 1434 General Physics II: Algebra Based PHYS 1442 General Physics II: Calculus Based One additional course from any category**III – College Option requirement3 (12 credits)**One course in Speech/Oral Communication COM 1330 Public Speaking or higher 3One interdisciplinary Liberal Arts and Sciences course (any approved course) 3Two additional liberal arts courses to reach a minimum total of 42 credits in general education. 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The number of elective credits will vary depending upon students’ choices in the Core and College Option areas; choosing a higher credit-hour course may increase the number of credits to graduate by 1.*** **4. *Electives******6 An acceptable substitutes for EDU 2460 is COMD 1167*** ***7 Acceptable substitutes for EDU 3420 are EET 1122, ETN 1102, or ETN 1302*** ***8 An acceptable substitute for EDU 4440 is ETN 1302.*** ***9 Students who have already satisfied this requirement may take any elective course to reach a minimum of 123 credits.*** ***10 Students can choose to take introductory language courses to satisfy some areas in the Flexible Core/College Option areas. Those who do not may need 3-6 additional credits to complete the degree program by taking one or two of the electives listed in the program.***  |
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**Rationale:** This will align our courses with the need of robotics, and programing teachers for NY City Schools curriculum and after-school programs as

**AV: 1 Changes to be offered in the Career & Technology Teacher Education Department**

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| --- | --- | --- | --- |
| **CUNYFirst Course ID** |  |  |  |
| **FROM** |  | **TO** |  |
| **Department(s)** | **Career & Technology Teacher Education**  | **Department(s)** | **Career & Technology Teacher Education** |
| **Course** | **EDU 2362** | **Course** | **EDU 2362** |
| **Corequisite** |  | **Corequisite** |  |
| **Prerequisite**  |  | **Prerequisite**  |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** | Methods of Teaching in Career and Technology Education ~~l~~ | **Description** | Methods of Teaching in Career and Technology Education  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | **[ ] Yes [ ] No**  | **Liberal Arts** | **[ ] Yes [ ] No**  |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** |

|  |  |
| --- | --- |
| **[ ] Major** |  |
| **[ ] Gen Ed Required** |
| **[ ] English Composition** |
| **[ ] Mathematics** |
| **[ ] Science** |
| **[ ] Gen Ed - Flexible** |
| **[ ] World Cultures** |
| **[ ] US Experience in its Diversity** |
| **[ ] Creative Expression** |
| **[ ] Individual and Society** |
| **[ ] Scientific World** |
| **[ ] Gen Ed - College Option** |
| **College Option Detail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 | **Course Applicability** |

|  |  |
| --- | --- |
| **[ ] Major** |  |
| **[ ] Gen Ed Required** |
| **[ ] English Composition** |
| **[ ] Mathematics** |
| **[ ] Science** |
| **[ ] Gen Ed - Flexible** |
| **[ ] World Cultures** |
| **[ ] US Experience in its Diversity** |
| **[ ] Creative Expression** |
| **[ ] Individual and Society** |
| **[ ] Scientific World** |
| **[ ] Gen Ed - College Option** |
| **College Option Detail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 |
| **Effective Term** |  |  |  |

Rationale:

**There are no longer two methods classes**

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| --- | --- | --- | --- |
| **CUNYFirst Course ID** |  |  |  |
| **FROM** |  | **TO** |  |
| **Department(s)** | **Career & Technology Teacher Education**  | **Department(s)** | **Career & Technology Teacher Education** |
| **Course** | **EDU 3400** | **Course** | **EDU 3400** |
| **Corequisite** |  | **Corequisite** |  |
| **Prerequisite**  |  | **Prerequisite**  |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** | Technological Systems ~~I~~  | **Description** | Technological Systems  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | **[ ] Yes [ ] No**  | **Liberal Arts** | **[ ] Yes [ ] No**  |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** |

|  |  |
| --- | --- |
| **[ ] Major** |  |
| **[ ] Gen Ed Required** |
| **[ ] English Composition** |
| **[ ] Mathematics** |
| **[ ] Science** |
| **[ ] Gen Ed - Flexible** |
| **[ ] World Cultures** |
| **[ ] US Experience in its Diversity** |
| **[ ] Creative Expression** |
| **[ ] Individual and Society** |
| **[ ] Scientific World** |
| **[ ] Gen Ed - College Option** |
| **College Option Detail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 | **Course Applicability** |

|  |  |
| --- | --- |
| **[ ] Major** |  |
| **[ ] Gen Ed Required** |
| **[ ] English Composition** |
| **[ ] Mathematics** |
| **[ ] Science** |
| **[ ] Gen Ed - Flexible** |
| **[ ] World Cultures** |
| **[ ] US Experience in its Diversity** |
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| **[ ] Individual and Society** |
| **[ ] Scientific World** |
| **[ ] Gen Ed - College Option** |
| **College Option Detail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 |
| **Effective Term** |  |  |  |

Rationale:

**There are no longer two Technological Systems classes**