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** | **Minor curriculum changes to CST BS in Data Science program elective courses** |
| **Date** | **02/01/2024** |
| **Major or Minor** | **Minor** |
| **Proposer’s Name** | **Yu-Wen Chen** |
| **Department** | **Computer Systems Technology** |
| **Date of Departmental Meeting in which proposal was approved** | **02/02/2024** |
| **Department Chair Name** | **Ashwin Satyanarayana** |
| **Department Chair Signature and Date** |  |
| **Academic Dean Name** | **Gerarda M. 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. | **BIO3450 and BIO4450 will replace MED2400 and MED4229 in the major elective course list for the BS in Data Science Program, following the Biology Sciences department's decision to replace MED2400 with BIO3450 and MED4229 with BIO4450.** |
| **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).  | **The Biology Sciences department has swapped out MED2400 and MED4229 with BIO3450 and BIO4450, respectively. This proposed adjustment in the minor curriculum expands student options within the major elective courses. Additionally, the Biology department will waive the prerequisite of BIO3350 for BIO3450, specifically for our Data Science students.** |
| **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 the new submission.** |

**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
 |  |
| * Dean’s Signature
 |  |
| 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 |

**Chancellor’s Report Form:**

**Section AIII: Changes in Degree Programs**

**The following revisions are proposed for the BS in Data Science**

**Program: BS in Data Science**

**Effective Date: Spring 2025**

|  |  |
| --- | --- |
| **FROM:**  | **TO:**  |
| **Data Science major Electives (6-7 credits)****(take any 2 courses from the list below)**BUS 2339 Financial Management 3 BUS 2341 Financial Forecasting 3 ECON 1101 Macroeconomics 3 ECON 2301 Money and Banking 3 ~~MED 2400 Medical Informatics Fundamentals 3~~ ~~MED 4229 Healthcare Database 3~~ CET 4925 Internet of Things 3 CET 4973 Introduction to Artificial Intelligence 3 MAT 3672 Probability and Statistics II 3 MAT 4672 Computational Statistics with  Applications 4 PHY 3600ID \*Machine Learning for Physics  and Astronomy 3 **Major Electives Sub-Total 6-~~7~~**\*Specific course indicates double duty course, i.e. program degree requirement that also meet general education requirements. Choose another elective to complete 120 credits if choosing to take double duty**Program Total Credits: 120-~~123~~** | **Data Science major Electives (6-8 credits)****(take any 2 courses from the list below)**BUS 2339 Financial Management 3 BUS 2341 Financial Forecasting 3 ECON 1101 Macroeconomics 3 ECON 2301 Money and Banking 3 BIO 3450 Biomedical Data Analytics I 4 BIO 4450 Biomedical Data Analytics II 4 CET 4925 Internet of Things 3 CET 4973 Introduction to Artificial Intelligence 3 MAT 3672 Probability and Statistics II 3 MAT 4672 Computational Statistics with  Applications 4 PHY 3600ID \*Machine Learning for Physics  and Astronomy 3 **Major Electives Sub-Total 6-8**\*Specific course indicates double duty course, i.e. program degree requirement that also meet general education requirements. Choose another elective to complete 120 credits if choosing to take double duty**Program Total Credits: 120-124** |

**Rationale:**

**The Biology Sciences department has swapped out MED2400 and MED4229 with BIO3450 and BIO4450, respectively. This proposed adjustment in the minor curriculum expands student options within the major elective courses. Additionally, the Biology department will waive the prerequisite of BIO3350 for BIO3450, specifically for our Data Science students.**