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** | **Change to the following CST Courses:**   1. **CST4715 Advanced topics in Systems Administration: course title change** 2. **CST4724 Data on the Web: course title and the course number** 3. **Add an alternative (CST 3624: Introduction to Non-Relational (NoSQL) Technologies) for CST4714: Database Administration for the students pursuing BS in Data Science** |
| **Date** | **3/22/2021** |
| **Major or Minor** | **Minor** |
| **Proposer’s Name** | **Bader Oudjehane, Elizabeth Milonas, Elena Filatova** |
| **Department** | **Computer Systems Technology Department (CST)** |
| **Date of Departmental Meeting in which proposal was approved** | **3/12/2021** |
| **Department Chair Name** | **Ashwin Satyanarayana** |
| **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. | 1. **Change CST4715 course title from “Advanced Topics in System Administration” to “Cloud Technologies”** 2. **Change CST4724 course number and course title:** 3. **Course number: from CST4724 to CST3624.** 4. **Course title: from “Data on the Web” to “Introduction to Non-Relational (NoSQL) Technologies”** 5. **Data Science program alternative course: for students pursuing BS in Data Science, add CST 3624 - Introduction to Non-Relational (NoSQL) Technologies as an alternative course for the CST4714 - Database Administration.** |
| **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). | 1. **Change CST4715 course title rationale: The course title change is required to represent more accurately what is being covered in the class. System administration has changed over the years and the title change will reflect technologies which are the current focus of what used to be called a “system administration” and which are used, managed and deployed by these professionals. The professional life of an IT engineer has changed to include so many remote resources organized differently under a cloud instead of the model of a central data center.** 2. **Change CST4724 course number and course title rationale: The proposed title change provides clarity by specifying that this course focuses exclusively on NoSQL technologies. The proposed course number change provides clarity in regards to course sequence within the CST BTech Database track. In addition the course number change provides students in the other three BTech tracks (Network/Security, IT Operation and Software Development) the opportunity to select this course as an elective for their designated track.** 3. **Data Science program alternative course: Adding an alternative course allows the Data Science students to strengthen their skills in the area that they are mostly interested in. Both CST 4714 and CST 3624 deal with data analysis and manipulation in data bases, the former course deals with relational data bases, the latter with noSQL data bases. The students get exposure to both types of data bases in the introduction level courses (in CST 1204 and CST 2402 respectively). Both CST 3624 and CST 4714 are advanced courses and at this level, the DS students can choose which data base technology they want to learn more.** |
| **Proposal History**  (Please provide history of this proposal: is this a resubmission? An updated version? This may most easily be expressed as a list). | **First draft of 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 |  |
| 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. | N/A |
| Detailed rationale for each modification (this includes minor modifications) | N/A |

# Section AV: Changes to Existing Courses

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| --- | --- | --- | --- |
| **CUNYFirst Course ID** |  |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** | ~~CST4715 – Advanced Topics in System Administration~~ | **Course** | CST4715 – Cloud Technologies |
| **Prerequisite** |  | **Prerequisite** |  |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **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  [ ] Speech  [ ] Interdisciplinary  [ ] Advanced Liberal Arts | **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  [ ] Speech  [ ] Interdisciplinary  [ ] Advanced Liberal Arts |
| **Effective Term** | Spring 2022 |  |  |

**Rationale: The course title change is required to represent more accurately what is being covered in the class. System administration has changed over the years and the title change will reflect technologies which are the current focus of what used to be called a “system administration” and which are used, managed and deployed by these professionals. The professional life of an IT engineer has changed to include so many remote resources organized differently under a cloud instead of the model of a central data center.**

# Section AV: Changes to Existing Courses

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| --- | --- | --- | --- |
| **CUNYFirst Course ID** |  |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** | ~~CST4724 – Data on the Web~~ | **Course** | CST3624 – Introduction to Non-Relational (NoSQL) Technologies |
| **Prerequisite** |  | **Prerequisite** |  |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **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  [ ] Speech  [ ] Interdisciplinary  [ ] Advanced Liberal Arts | **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  [ ] Speech  [ ] Interdisciplinary  [ ] Advanced Liberal Arts |
| **Effective Term** | Spring 2021 |  |  |

**Rationale: The proposed title change provides clarity by specifying that this course focuses exclusively on NoSQL technologies. The proposed course number change provides clarity in regards to course sequence within the CST BTech Database track. In addition the course number change provides students in the Network/Security, IT Operation and Software Development the opportunity to use this course as an elective for their designated track.**

# Section AV: Changes to Existing Courses



**Rationale: Adding an alternative course allows the Data Science students to strengthen their skills in the area that they are mostly interested in. Both CST 4714 and CST 3624 deal with data analysis and manipulation in data bases, the former course deals with relational data bases, the latter with noSQL data bases. The students get exposure to both types of data bases in the introduction level courses (in CST 1204 and CST 2402 respectively). Both CST 3624 and CST 4714 are advanced courses and at this level, the DS students can choose which data base technology they want to learn more.**