


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](#) for information about what types of modifications are major or minor. Completed proposals should be emailed to the Curriculum Committee chair.

<b>Title of Proposal</b>	<b>Change in course description for CST4724 Data on the Web</b>
<b>Date</b>	<b>9/12/19</b>
<b>Major or Minor</b>	<b>Minor</b>
<b>Proposer's Name</b>	<b>Elizabeth Milonas</b>
<b>Department</b>	<b>Computer Systems Technology</b>
<b>Date of Departmental Meeting in which proposal was approved</b>	<b>March 1, 2019</b>
<b>Department Chair Name</b>	<b>Candido Cabo</b>
<b>Department Chair Signature and Date</b>	
<b>Academic Dean Name</b>	<b>Gerarda M. Shields</b>
<b>Academic Dean Signature and Date</b>	
<b>Brief Description of Proposal</b> (Describe the modifications contained within this proposal in a succinct summary. More detailed content will be provided in the proposal body.)	<p><b>Changes to the prerequisites and course description for CST4724 Data on the Web.</b></p> <ol style="list-style-type: none"> <li><b>Prerequisite change:</b> from CST2309 and CST3504 to CST1204 or CST3504.</li> <li><b>Course description change to the following:</b> In this course, students develop a fundamental and practical understanding of the Web based database domain particularly NoSQL databases. Traditional relational database models are reviewed and NoSQL database models such as key-value, document, columnar and graph are analyzed, employed and practiced. Query and retrieval techniques used for Web data in connection with NoSQL database models are discussed, compared and utilized. NoSQL databases such as key-value stores, graph stores and document stores are examined and utilized.</li> </ol>

<p><b>Brief Rationale for Proposal</b> (Provide a concise summary of why this proposed change is important to the department. More detailed content will be provided in the proposal body).</p>	<ol style="list-style-type: none"><li><b>1. Prerequisite change:</b> will better align course content with knowledge needed to successfully complete the course.</li><li><b>2. Course Description:</b> more accurately reflect the course content, which focuses on non-relational (NoSQL) as well as relational database technology and identifies the key design and programming concepts related to various non-relational (NoSQL) database technology.</li></ol>
<p><b>Proposal History</b> (Please provide history of this proposal: is this a resubmission? An updated version? This may most easily be expressed as a list).</p>	<p>This is a new proposal</p>

## 19D Minor Changes to Course Description CST 4724 11/15/2019 (v2)

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**

Completed CURRICULUM MODIFICATION FORM including:	
<input checked="" type="checkbox"/> Brief description of proposal	X
<input checked="" type="checkbox"/> Rationale for proposal	X
<input checked="" type="checkbox"/> Date of department meeting approving the modification	X
<input checked="" type="checkbox"/> Chair's Signature	X
<input checked="" type="checkbox"/> 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 <a href="#">C hancellor's Repo rt Form</a> .	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 report from  
Section AV: Changes in Existing Courses**

**AV.1. Computer Systems Technology**

**CST 4724 Data on the Web**

<b>From:</b>		<b>To:</b>	
<b>Course Number:</b>	<b>CST4724</b>	<b>Course Number:</b>	<b>CST4724</b>
<b>Course Title:</b>	<b>Data on the Web</b>	<b>Course Title:</b>	<b>Data on the Web</b>
<b>Description:</b>	<del>Students in this course will develop a fundamental understanding of Web databases and services on the semantic Web. Issues related to querying and retrieving information will be explored. A detailed framework for querying Web databases and services including case studies will be investigated. The design, creation, and maintenance of structured and controlled vocabulary such as ontologies, taxonomies and thesauri as they apply to Web databases will be explained and discussed in detail.</del>	<b>Description:</b>	<b>In this course, students develop a fundamental and practical understanding of the Web based database domain particularly NoSQL databases. Traditional relational database models are reviewed and NoSQL database models such as key-value, document, columnar and graph are analyzed, employed and practiced. Query and retrieval techniques used for Web data in connection with NoSQL database models are discussed, compared and utilized. NoSQL databases such as key-value stores, graph stores and document stores are examined and utilized.</b>
<b>Class Hours</b>		<b>Class Hours:</b>	
<b>Lab Hours :</b>		<b>Lab Hours:</b>	
<b>Credits:</b>		<b>Credits:</b>	
<b>Prerequisite:</b>	<del>CST2309 and CST3504 with a grade of C or higher. Acceptable substitute for CST4706</del>	<b>Prerequisite:</b>	<b>CST1204 or CST3504 with a grade of C or higher. Acceptable substitute for CST4706</b>
<b>Corequisites</b>		<b>Corequisites</b>	
<b>Pre- or corequisit</b>		<b>Pre- or corequisit</b>	

**Rationale:** This change will more accurately reflect the course content which focuses on non-relational (NoSQL) as well as relational database technology and identifies the key design and programming concepts related to various non-relational (NoSQL) database technology.