

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

<b>Course Code and Number:</b> COMP 386		<b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>															
<b>Course Full Title:</b> Coding Best Practices <b>Course Short Title:</b> <i>(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)</i>																	
<b>Faculty:</b> Faculty of Professional Studies		<b>Department (or program if no department):</b> Computer Information Systems															
<b>Calendar Description:</b> Provides students with experience using software development tools and workflows. The content will emphasize best practices, quality assurance strategies, style guidelines, and professionalism. Students will learn to select and evaluate emerging technologies for use in their software development workflows.																	
<b>Prerequisites (or NONE):</b>		Admission to the Coding Skills associate certificate, COMP 359, and COMP 370.															
<b>Corequisites (if applicable, or NONE):</b>																	
<b>Pre/corequisites (if applicable, or NONE):</b>																	
<b>Antirequisite Courses</b> <i>(Cannot be taken for additional credit.)</i> Former course code/number: Cross-listed with: Dual-listed with: Equivalent course(s):		<b>Special Topics</b> <i>(Double-click on boxes to select.)</i> This course is offered with different topics: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <i>(If yes, topic will be recorded when offered.)</i>															
		<b>Independent Study</b> If offered as an Independent Study course, this course may be repeated for further credit: <i>(If yes, topic will be recorded.)</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit															
<b>Typical Structure of Instructional Hours</b> <table border="1"> <tr> <td>Lecture/seminar hours</td> <td>45</td> </tr> <tr> <td>Tutorials/workshops</td> <td></td> </tr> <tr> <td>Supervised laboratory hours</td> <td></td> </tr> <tr> <td>Experiential (field experience, practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Supervised online activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td><b>45</b></td> </tr> </table>		Lecture/seminar hours	45	Tutorials/workshops		Supervised laboratory hours		Experiential (field experience, practicum, internship, etc.)		Supervised online activities		Other contact hours:		<b>Total hours</b>	<b>45</b>	<b>Transfer Credit</b> Transfer credit already exists: <i>(See <a href="#">bctransferguide.ca</a>.)</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Submit outline for (re)articulation: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <i>(If yes, fill in transfer credit form.)</i>	
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		<b>Grading System</b> <input checked="" type="checkbox"/> Letter Grades <input type="checkbox"/> Credit/No Credit															
Labs to be scheduled independent of lecture hours: <input type="checkbox"/> No <input type="checkbox"/> Yes		<b>Maximum enrolment (for information only):</b> <b>Expected Frequency of Course Offerings:</b> <i>(Every semester, Fall only, annually, etc.)</i>															
<b>Department / Program Head or Director:</b> Carl Janzen		<b>Date approved:</b> October 2018															
<b>Faculty Council approval</b>		<b>Date approved:</b> November 2018															
<b>Dean/Associate VP:</b> Tracy Ryder Glass		<b>Date approved:</b> November 2018															
<b>Campus-Wide Consultation (CWC)</b>		<b>Date of posting:</b> January 18, 2019															
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> February 1, 2019															

**Learning Outcomes:**

Upon successful completion of this course, students will be able to:

- Choose software development tools and workflows that are well-suited for a given software development project.
- Determine the specific need for software development tools and workflows in a given business environment.
- Evaluate the effectiveness of software development tools and workflows.
- Incorporate software development tools and workflows for software systems design.
- Apply best practices during software design and implementation.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods** (*Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.*)

Any combination of lecture or online instruction

**NOTE:** The following sections may vary by instructor. Please see course syllabus available from the instructor.

**Typical Text(s) and Resource Materials** (*If more space is required, download Supplemental Texts and Resource Materials form.*)

Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1. Bernstein, D.S.	Beyond Legacy Code: Nine Practices to Extend the Life (and Value) of Your Software	<input checked="" type="checkbox"/>	Pragmatic Programmers LLC	2015
2.		<input type="checkbox"/>		
3.		<input type="checkbox"/>		
4.		<input type="checkbox"/>		
5.		<input type="checkbox"/>		

**Required Additional Supplies and Materials** (*Software, hardware, tools, specialized clothing, etc.*)**Typical Evaluation Methods and Weighting**

Final exam:	%	Assignments:	40%	Field experience:	%	Portfolio:	%
Midterm exam:	%	Project:	60%	Practicum:	%	Other:	%
Quizzes/tests:	%	Lab work:	%	Shop work:	%	Total:	100%

**Details (if necessary):****Typical Course Content and Topics**

*Course topics may be by instructor. A typical example of course topics would be:*

- Dependency management systems
- Version control systems
- Continuous integration
- Unit testing
- Mocking frameworks
- Integration testing
- Acceptance testing
- Coding style guidelines
- Design style guidelines
- Collaboration and workflow systems
- Quality assurance