

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: COMP 340		Number of Credits: 3 Course credit policy (105)															
Course Full Title: Operating Systems Course Short Title: <i>(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)</i>																	
Faculty: Faculty of Professional Studies		Department (or program if no department): Computer Information Systems															
Calendar Description: An examination of computer operating system architecture. Students will gain an understanding of general as well as distinguishing features of various operating systems. Students are also expected to do some system programming on multi-user operating systems such as UNIX or LINUX.																	
Prerequisites (or NONE):		COMP 251 and admission to the Bachelor of Computer Information Systems degree or the Bachelor of Science with Computing Science major. Note: Students accepted to a CIS or Computing Science minor may register with permission of the department.															
Corequisites (if applicable, or NONE):																	
Pre/corequisites (if applicable, or NONE):																	
Antirequisite Courses <i>(Cannot be taken for additional credit.)</i> Former course code/number: Cross-listed with: Dual-listed with: Equivalent course(s): <i>(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)</i>		Special Topics <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>															
		Independent Study 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															
		Transfer Credit Transfer credit already exists: (See bctransferguide.ca .) <input type="checkbox"/> No <input checked="" 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>															
Typical Structure of Instructional Hours <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>Total hours</td> <td>45</td> </tr> </table>		Lecture/seminar hours	45	Tutorials/workshops		Supervised laboratory hours		Experiential (field experience, practicum, internship, etc.)		Supervised online activities		Other contact hours:		Total hours	45	Grading System <input checked="" type="checkbox"/> Letter Grades <input type="checkbox"/> Credit/No Credit	
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Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Maximum enrolment (for information only): 35 Expected Frequency of Course Offerings: Annually <i>(Every semester, Fall only, annually, etc.)</i>															
Department / Program Head or Director: Talia Q		Date approved: December 2028															
Faculty Council approval		Date approved: December 7, 2018															
Dean/Associate VP: Tracy Ryder Glass		Date approved: December 7, 2018															
Campus-Wide Consultation (CWC)		Date of posting: February 22, 2019															
Undergraduate Education Committee (UEC) approval		Date of meeting: March 1, 2019															

Learning Outcomes:

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

- Describe the general features of different operating systems.
- Compare differences between operating systems.
- Evaluate the efficiency of various operating systems.
- Compare and contrast various techniques using operating systems for tasks such as scheduling and dealing with deadlocks.
- Demonstrate their understanding of operating systems in labs.

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.*)

Lecture and lab.

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. Stallings, W.	Operating System — Internals and Design Principles	<input checked="" type="checkbox"/>	Pearson	
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:	30%	Assignments:	20%	Field experience:	%	Portfolio:	%
Midterm exam:	%	Project:	%	Practicum:	%	Other:	%
Quizzes/tests:	50%	Lab work:	%	Shop work:	%	Total:	100%

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

Students taking this course will gain a comprehensive grounding in the area of multi-programmed operating systems, including an understanding of the theoretical and practical issues and problems in operating system design. While the course concentrates on the principles behind the design of all operating systems students will be expected to peruse appropriate literature in order to appreciate the design decisions adopted in various specific operating systems. As in any upper-level computing course, students will be expected to learn about some aspects of topic areas through reading assignments and self-directed research.