



**DEPARTMENT OF SCIENCE
COURSE OUTLINE - CS3790
OPERATING SYSTEMS - FALL 2014**

**INSTRUCTOR: franco carlacci
OFFICE: c422
OFFICE HOURS:TBA**

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PREREQUISITE(S)/COREQUISITE:

Prerequisite : cs1150

REQUIRED TEXT/RESOURCE MATERIALS:

The text to be used in this course is :*Operating Systems Concepts , Internals and Design Principles, Eighth Edition* by William Stallings.

Also material for this course will be made available at <http://www.carlacci.com>.

CALENDAR DESCRIPTION:

You will be introduced to concepts and features commonly found in operating systems. Class discussion will concentrate on traditional operating system topics (processes, memory management, file systems, input/output) as well as distributed operating system topics (communication, synchronization, and distributed file systems). UNIX will be studied as an example of traditional and distributed operating systems.

CREDIT/CONTACT HOURS: 3 credits (3-0-2) / 75 contact hours

DELIVERY MODE(S): classroom

OBJECTIVES (OPTIONAL):

TRANSFERABILITY:

University of Alberta *, University of Calgary , University of Lethbridge ,
Athabasca University

* An asterisk (*) beside any transfer institution indicates important transfer information.
Consult the Alberta Transfer Guide.

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions.
Students are cautioned that it is their responsibility to contact the receiving
institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE		
GRADING CONVERSION CHART		
Alpha Grade	4-point Equivalent	Percentage Guidelines
A⁺	4.0	90 – 100
A	4.0	85 – 89
A⁻	3.7	80 – 84
B⁺	3.3	77 – 79
B	3.0	73 – 76
B⁻	2.7	70 – 72
C⁺	2.3	67 – 69
C	2.0	63 – 66
C⁻	1.7	60 – 62
D⁺	1.3	55 – 59
D	1.0	50 – 54
F	0.0	0 – 49
WF	0.0	0

EVALUATIONS:

Assignments (takehome and labs)	: 50%
Midterm	: 15%
Final	: 35%

Assignments that are less than one week late will be penalized 20%; assignments submitted after that period will receive a grade of 0. Please note that you must submit ALL assignments (even late ones!) if you want the assignment portion to count towards your final grade.

STUDENT RESPONSIBILITIES:

1. Student are responsible for adhering to all requirements laid out in the assignments.
2. Students must attend all lectures/labs. A student missing more than 20% of classes/labs may be barred from writing the final exam.
3. Students must submit ALL assignments (even late ones) if they want the assignment portion to count towards your final grade.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the College Policy on Student Misconduct

https://www.gprc.ab.ca/files/forms_documents/Student_Misconduct.pdf

Note : all Academic and administrative policies are available at

<https://www.gprc.ab.ca/about/administration/policies/>

COURSE SCHEDULE/TENTATIVE TIMELINE:

Computer System Overview
Operating System Overview
Process Description and control
Threads
Mutual Exclusion and Synchronization
Deadlock and Starvation
Memory Management
Virtual Memory
Uni and multiprocessor scheduling
I/O management and Disk Scheduling
File Management
OS Security