



## COURSE OUTLINE: MAP203 - MOBILE INFRASTRUCTURE

Prepared: Joshua McColeman

Approved: David Oraziotti, Dean, Environment, Technology, and Business

<b>Course Code: Title</b>	MAP203: MOBILE INFRASTRUCTURE: INTRO ENTERPRISE
<b>Program Number: Name</b>	2191: MOBILE APPS DESIGN
<b>Department:</b>	COMPUTER STUDIES
<b>Semesters/Terms:</b>	21W
<b>Course Description:</b>	In this course, students will study the basics of cloud computing. Topics covered will include: the various categories of cloud computing, the various cloud computing vendors, virtualization technology, mobile cloud computing, security, the business impact of cloud and bring your own device (BYOD) mobility, and more. Students will have the opportunity to examine current cloud computing vendors, research, develop, and present samples of cloud applications, and participate in a peer-teaching lab environment that helps to build collaboration and communication skills.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<p><b>2191 - MOBILE APPS DESIGN</b></p> <p>VLO 1 Evaluate business and design requirements to select, formulate and implement mobile solutions.</p> <p>VLO 2 Propose deliverable proprietary mobile solutions to prospective clients using business, marketing and sales strategies.</p>
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for one's own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	<p>Passing Grade: 50%, D</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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**Other Course Evaluation & Assessment Requirements:**

The student must pass both the lab and test portions of the course.

**Attendance:**

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance, therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Absences due to medical or other unavoidable circumstances should be discussed with the instructor. Students are required to be in class on time and attendance will be taken within the first five minutes of class.

Absentee reports will be discussed with each student during regular meetings with Faculty Advisors.

**Grade**

Definition Grade Point Equivalent

A+ 90 - 100% 4.00

A 80 - 89%

B 70 - 79% 3.00

C 60 - 69% 2.00

D 50 - 59% 1.00

F (Fail) 49% and below 0.00

CR (Credit) Credit for diploma requirements has been awarded.

S Satisfactory achievement in field /clinical placement or non-graded subject area.

U Unsatisfactory achievement in field/clinical placement or non-graded subject area.

X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.

NR Grade not reported to Registrar's office.

W Student has withdrawn from the course without academic penalty

**Books and Required Resources:**

Cloud Computing by Sandeep Bhowmik

Publisher: Cambridge University Press Edition: 1

ISBN: 9781316638101

**Course Outcomes and Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
Introduction to cloud computing. The history/evolution of cloud computing. Enabling technologies, benefits and challenges.	1.1 Articulate the basic concepts and key technologies in cloud computing. 1.2 Contrast between traditional computing vs cloud computing. 1.3 Understand how cloud computing addresses business and app challenges. 1.4 Explore the history and evolution of cloud computing. 1.5 Describe the benefits and challenges of cloud computing. 1.6 Understand what web services are and their purpose.
Course Outcome 2	Learning Objectives for Course Outcome 2
Cloud computing models and services.	2.1 Identify the standard architecture of cloud computing. 2.2 Describe the different cloud deployment models. 2.3 Understand how to choose the appropriate deployment model. 2.4 Describe different cloud services.

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	2.5 Explore open cloud services.
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
Security, privacy and compliance in the cloud.	3.1 Demonstrate knowledge of cloud security principles. 3.2 Identify various cloud security issues. 3.3 Describe how to address cloud security issues and mitigate security threats. 3.4 Identify key privacy concerns. 3.5 Explore governance, risk and compliance.
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
Popular cloud services. The content delivery network. Mobile cloud computing and the Internet of Things.	4.1 Explore the major cloud service providers including Amazon, Google and Microsoft. 4.2 Explain the advantages and disadvantages of each major cloud provider. 4.3 Describe mobile cloud computing and the Internet of Things. 4.4 Understand big data and optimized content delivery. 4.5 Explain the pros and cons of the content delivery network. 4.6 Experiment with programming tools to access and utilize cloud provider services.
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
Storage, database technology, and file systems.	5.1 Identify cloud storage deployment models and storage types. 5.2 Describe models for high-performance processing of large datasets 5.3 Explore cloud native file systems. 5.4 Understand database in the cloud and database as a service. 5.5 Examine relational and non-relational database in the cloud technologies. 5.6 Experiment with popular cloud storage services.

#### Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignment 1	6%
Assignment 2	6%
Assignment 3	6%
Assignment 4	6%
Assignment 5	6%
Quiz 1	2%
Quiz 2	2%
Quiz 3	2%
Quiz 4	2%
Quiz 5	2%
Test 1	25%

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	Test 2	35%
<b>Date:</b>	October 1, 2020	
<b>Addendum:</b>	Please refer to the course outline addendum on the Learning Management System for further information.	

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