MAD9145
Applied Project

Course Outline

2020-2021

Pre-requisite(s)	MAD9034 and MAD9132 and MAD9135
Co-requisite(s)	N/A
Prepared by	SuCheng Lee, Professor
Approved by	Dan Pihlainen, Chair, Media Studies
Normative hours	84.00
Grading system	A+ Through F
Experential Learning	Yes

Applicable Program	Level	Core/Elective
1515X01FWO - Mobile App. Des. & Dev	4	Core

COVID-19 Notice
Due to COVID-19 this course may be offered via remote delivery in 2020-21. Your course may have changes that are not reflected in the Course Outline. Please see the Course Section Information document for updated information about your course. If you have questions please contact your professor.

Course Description

Working in teams, students experience the analysis, design, implementation, testing and deployment of a mobile solution for a real-world client. Important topics from throughout their program of study are applied in this course. Faculty advisors facilitate student teams to demonstrate their skills in the applied project. Student teams make a technical presentation to their faculty advisors and participate in a public showcase of projects.

Vocational Learning Outcomes

This course provides the opportunity for you to achieve the following outcomes.

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VLO 1	Identify requirements and implement mobile solutions. (CP)
VLO 3	Create effective user interfaces that leverage evolving mobile device capabilities. (CP)
VLO 4	Design and develop websites that deploy to different devices and platforms. (CP)
VLO 5	Design and develop cross-platform applications built with rich-media and HTML-based technologies. (CP)
VLO 6	Design and develop device-specific, native applications. (CP)
VLO 7	Research and apply various software development kits (SDKs), frameworks and toolkits. (CP)
VLO 8	Integrate database and server-side technologies to provide complete mobile development solutions. (CP)
VLO 9	Build, test, and deploy secure mobile solutions using appropriate network technologies. (CP)
VLO 10	Collaborate in a team-based, mobile development project. (CP)
VLO 11	Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship. (CP)

Asessment Levels — T: Taught **A**: Assessed **CP**: Culminating Performance

Essential Employability Skills

This course contributes to your program by helping you achieve the following Essential Employability Skills:

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. (CP)

EES 2   Respond to written, spoken or visual messages in a manner that ensures effective communication. (CP)

EES 3   Execute mathematical operations accurately. (CP)

EES 4   Apply a systematic approach to solve problems. (CP)

EES 5   Use a variety of thinking skills to anticipate and solve problems. (CP)

EES 6   Locate, select, organize and document information using appropriate technology and information systems. (CP)

EES 7   Analyze, evaluate and apply relevant information from a variety of sources. (CP)

EES 8   Show respect for diverse opinions, values, belief systems and contributions of others. (CP)

EES 9   Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals. (CP)

EES 10   Manage the use of time and other resources to complete projects. (CP)

EES 11   Take responsibility for one's own actions, decisions and consequences. (CP)

Asessment Levels — T: Taught **A**: Assessed **CP**: Culminating Performance

Experiential Learning

Program:	1515X01FWO
EL Type:	Field Projects
EL Description:	**Definition:** Scheduled or unscheduled hours of activities that may or may not take place within a workplace but allow students to work with employers in order to provide hands-on work experience. **Remuneration:** No **Evaluation Responsibility:** College faculty, workplace supervisors or a combination **AC Employee Role:** College employees validate opportunities, facilitate relationships, and support students and employers throughout the project. **Commitment:** Provincial Average: 162 Hours **Necessary for Program Completion?:** If mandatory, yes; if optional, no **MTCU Instructional Setting:** Laboratories/workshops/fieldwork
Approximately EL Hours:	
Comments:	

Course Learning Requirements / Embedded Knowledge and Skills

When you have earned credit for this course, you will have demonstrated the ability to:

1.) Work effectively, individually and within a team, to solve problems and deliver a reasonable mobile application to a client.
- Evaluate self and team members while taking personal responsibility for fair and timely contribution to a team project. Work respectfully and efficiently with other team members to carry out tasks involved in the research, analysis, design, development, testing and deployment of a mobile application on time; capitalizing on the variety of team talents to support problem solving. Communicate, in a timely fashion, with team members, client and course professors. Use techniques to commiunicate and support efficient project progression

2.) Research, analyze, design, build, test, and deploy a mobile application using an agile software development methodology.
- Research, analyze, design, and build a mobile application using regular communications with the client. Using a variety of thinking skills, apply a systematic approach to solve the problems presented during the project. Design, build, test and deploy a mobile application based on evaluated client requirements. Create databases to support requirements and integrate within an existing system (if necessary). Identify and implement measures to support sustainability.

3.) Communicate effectively with a client to determine requirements and to provide a mobile solution.

- Draft effective agenda and minutes for client meetings. Interview the client to effectively gather relevant information to determine requirements of the the system to be delivered, according to the client's standards and goals. Request client approval of the system requirements document and final project sign-off. Idnentify and respond to opportunities to integrate with international or inter-cultural aspects to communications with the client.

4.) Demonstrate interm releases and the final product to the client, course professors, and others.
- Prepare demonstration material, narratives and other material to properly exhibit the mobile solution to the client and other interested professionals. Install and configure the interim releases and final mobile solution to the client and course professors. Respond to situations where attention to international or intercultural sensitivity is required.

Learning Resources

Required:

Textbook: none

Software: Varies with project.

Hardware:
This course is part of the mobile (laptop) program initiative at Algonquin College. Students are required to have a functioning MacBook Pro at all lecture and lab classes. The specifications for the required laptop and additional information about the mobile program initiative can be found at http://www.algonquincollege.com/byod/.

Learning Activities

Attend and participate in lectures.

Attend and participate in team meetings with the course professors to review project status.

Attend and participate in meetings with the project client.

Interview and present work-in-progress to project clients, project professors and others.

Write emails and prepare minutes for client meetings.

Write documents as required for the project.

Conduct user experience design activities.

Build interim releases and the final project solution.

Present the final project solution to the client, project professors and others.

Hybrid Activities:
The hybrid portion of this course will involve team and individual design and development work, team and client meetings, with additional opportunities to meet with the project professors.

Evaluation / Earning Credit

The following list provides evidence of this course's learning achievements and the outcomes they validate:

Report(s) (30%)
Validates Outcomes: CLR 3, EES 1, EES 2, EES 4, EES 6, EES 7, EES 8, EES 9, EES 10, EES 11

Group Presentation(s) (20%)
Validates Outcomes: CLR 3, EES 1

Group Performance(s) (20%)
Validates Outcomes: EES 9, EES 11

Team Project (30%)

Prior Learning Assessment and Recognition

Students who wish to apply for Prior Learning Assessment and Recognition (PLAR) need to demonstrate competency at a post-secondary level in all outlined course learning requirements. Evidence of learning achievement for PLAR candidates includes:

- Other: Not Applicable

Other Information

Students are required to respect the confidentiality of employer, client and/or patient information, interactions, and practices that occur either on Algonquin College premises, or at an affiliated clinical/field/co-op placement site. Concerns regarding clients, patients, and/or employer practices are to be brought to the attention of the program coordinator, or designated field/clinical/co-op placement supervisor so that they may be resolved collaboratively. Such concerns are not to be raised publically either verbally, in writing, or in electronic forums. These matters are to be addressed through established program communication pathways.

Grade Scheme

Final Grade	Mark Equivalent	Numeric Value	Final Grade	Mark Equivalent	Numeric Value
A+	90% - 100%	4.0	A	85% - 89%	3.8
A-	80% - 84%	3.6	B+	77% - 79%	3.3
B	73% - 76%	3.0	B-	70% - 72%	2.7
C+	67% - 69%	2.3	C	63% - 66%	2.0
C-	60% - 62%	1.7	D+	57% - 59%	1.4
D	53% - 56%	1.2	D-	50% - 52%	1.0
F	0% - 49%	0	FSP	0	0

Course Related Information

Please refer to the Course website for specific course-related information as provided by your professor.
Each team will have a Code of Conduct that will direct student performance on the projects and can impact student grades.
Should students fail to follow the class or team code of conduct they can, at the discretion of the course faculty, be removed from a team and be given an alternative project.

Program Related Information

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The late policy for assignments is a 10% per day deduction to a maximum of 30%.

If an assignment is still not submitted 10 days after the due date then a grade of zero will be given for the assignment. Students can still submit work for review and feedback after the 10 days but no grade will be given.

Any extensions to due dates must be arranged with the course instructor BEFORE the due date.

Department Related Information

College Related Information

Email
Algonquin College provides all full-time students with an e-mail account. This is the address that will be used when the College, your professors, or your fellow students communicate important information about your program or course events. It is your responsibility to ensure that you know how to send and receive e-mail using your Algonquin account and to check it regularly.

Students with Disabilities

If you are a student with a disability, you are strongly encouraged to make an appointment at the Centre for Accessible Learning to identify your needs. Ideally, this should be done within the first month of your program, so that a Letter of Accommodation (LOA) can be provided to your professors. If you are a returning student, please ensure that professors are given a copy of your LOA each semester.

Retroactive Accommodations

Students are expected to meet evaluation and completion deadlines as stated in course outline and course section information documents. In circumstances where evaluation and/or completion deadlines are missed or student performance has been affected by a temporary or permanent disability (including mental health), interim or retroactive accommodations may be considered. In such instances, please consult your course faculty member. For other situations where deferral of evaluations may be warranted, please refer to college policy AA21.

Academic Integrity & Plagiarism

Algonquin College is committed to the highest standards of academic integrity, and expects students to adhere to these standards as part of the learning process. Academic work submitted by a student is evaluated on the assumption that the work presented by the student is his or her own, unless designated otherwise. The College's Policies AA18: Academic Dishonesty and Discipline and AA20: Plagiarism seeks to ensure that all students understand their rights and responsibilities in upholding the values of academic integrity.
 In some courses, online proctoring may be used. Additional information can be found at
https://www.algonquincollege.com/studentsupportservices/student-learning-kit/preparing-to-learn-online/

Student Course Feedback

It is Algonquin College's policy to give students the opportunity to share their course experience by completing a student course feedback survey for each course they take. For further details consult Algonquin College Policy AA25: Student Course Feedback

Use of Mobile Devices in Class

With the proliferation of small, personal mobile devices used for communications and data storage, Algonquin College believes there is a need to address their use during classes and examinations. During classes, the use of such devices is disruptive and disrespectful to others. During examinations, the use of such devices may facilitate cheating. For further details consult Algonquin College Policy AA32: Use of Mobile Devices in Class

Technology Requirements – New for 2020-21

As Algonquin College continues to respond to public health guidelines, many courses will be offered through remote delivery. As such, students will be required to have access to a computer and to the internet. There may also be additional technology-related resources required to participate in a course that are not included in the course materials fee, such as headphones, webcams, specialized software, etc. Details on these requirements can be found in the Course Section Information of the course outline for each course.

Transfer of Credit

It is the student's responsibility to retain course outlines for possible future use to support applications for transfer of credit to other educational institutions.

Note: *It is the student's responsibility to refer to the Algonquin College Policies website for the most current information at http://www.algonquincollege.com/policies/*