

## COURSE OUTLINE: AMF105 - PROJECT RESEARCH ERW

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	AMF105: PROJECT RESEARCH/ETHICS/REPORT WRITING			
Program Number: Name	4069: AUTOMATED MANUFACT.			
Department:	ROBOTICS GRADUATE CERTIFICATE			
Academic Year:	2023-2024			
Course Description:	The students in this course will gain the understanding of project management and research which includes: project planning, scheduling and reporting. The students will also gain the understanding of ethics and technical report writing.			
Total Credits:	2			
Hours/Week:	2			
Total Hours:	28			
Prerequisites:	There are no pre-requisites for this course.			
Corequisites:	There are no co-requisites for this course.			
This course is a pre-requisite for:	AMF205			
Vocational Learning Outcomes (VLO's) addressed in this course:	4069 - AUTOMATED MANUFACT.			
	VLO 1 Solve automated manufacturing problems found in a typical industrial environment by applying engineering principles and decision-making strategies.			
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 2 Analyze and synthesize technical data to develop graphics and related technical documents conforming to engineering standards.			
	5 Incorporate sustainable, economic, safe and ethical approaches in the design and implementation of projects.			
	VLO 7 Exercise professionalism, leadership, and effective communication in an industrial work setting to increase overall productivity and support a positive work environment.			
Essential Employability Skills (EES) addressed in this course:	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.			
	S 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.			
	ES 5 Use a variety of thinking skills to anticipate and solve problems.			
	ES 6 Locate, select, organize, and document information using appropriate technology and information systems.			
	S 7 Analyze, evaluate, and apply relevant information from a variety of sources.			
	ES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.			
	EES 10 Manage the use of time and other resources to complete projects.			



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	EES 11 Take responsibility for ones own actions, decisions, and consequences.					
Course Evaluation:	Passing Grade: 50%, D					
	A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.					
Other Course Evaluation & Assessment Requirements:	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.					
	Attendance:					
	A student who attends less than 80% classes will receive a zero (0) for their participation grade.					
	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.					
	It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers will not be granted admission to the room.					
Books and Required Resources:	Engineering Ethics: Concepts and Cases by Charles E. Harris, Jr., Michael S. Pritchard, Ray W. James, Elaine E. Englehardt, Michael J. Rabins Publisher: Cengage Learning Edition: Sixth ISBN: 978-1-337-55450-3					
Course Outcomes and	Course Outcome 1	Learning Objectives for Course Outcome 1				
Learning Objectives:	Understand how to research.	1.1 Investigate and practice how to choose a topic.     1.2 Understand and utilize the various types of resources available.     1.3 Understand and practice compiling resources.				
	Course Outcome 2	Learning Objectives for Course Outcome 2				
	Understand how to write a technical document.	<ul><li>2.1 Understand the audience for the document.</li><li>2.2 Understand the objectives and purpose of the document.</li><li>2.3 Understand and apply the various kinds of reports needed</li></ul>				



		2.4 Unde format the		chnical field.  derstand the different sections of a document and how to them.  derstand the MLA and APA formats and how to use	
	3. Understand engineering ethics.		Learning Objectives for Course Outcome 3		
			3.1 Understand the definition of ethics 3.2 Understand ethical behavior with engineering and society. 3.3 Understand applications of ethics, evolving issues in engineering ethics and ethics of emerging technologies. 3.4 Understand and analyze ethical case studies.		
Evaluation Process and Grading System:	Evaluation Type	Evaluatio	n Weight		
	Assignments	20%			
	Case Studies	20%			
	Participation	10%			

25%

25%

Date:

May 30, 2023

Report 1

Report 2

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

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