



		Col	urse Outline			
1. COURSE INFOR	RMATION					
Session Offered	Winter 202	2				
Course Name	Operations Management					
Course Code	GENTECH 40M3					
Date(s) and	C01 Monda		day 08:30 - 10:20			
Time(s) of lectures	C01	. Thurs	day 13:30 - 14:20			
	C02	. Tueso	ay 13:30 - 14:20			
	C02	. Friday	11:30 - 13:20			
	C03	Tueso	lay 16:30 -	16:30 - 18:20		
	C03	Thurs	day 11:30 -	0 - 12:20		
Lectures Zoom Link	https://mcmaster.zoom.us/j/98010900935?pwd=d0dxSGNxYmk1bW4xWXg0ajU4eE9BQT09					
Program Name	One of the following: Automotive and Vehicle Engineering Technology/ Biotechnology/					
Calendar	Automation Engineering Technology This course addresses the management of operations at the strategic, tactical and operations					
Description	levels. Emphasizing decisions required to successfully design, create and deliver goods and					
	services in a	a globalized mar	·			
Instructor(s)	Alyaa Abdelhalim E-Mail: abdela21@mcmaster.ca Office Hours & Location: TBA					
TAs	F-Mail: min			il: minnitij@mcmaster.ca		
			Office Hours & Location: TBA			
	Daniel Hilal E-Mail: hilald@mcmaster.ca Office Hours & Location: TBA					
	Romanch Shah		E-Mail: shahr60@mcmaster.ca			
2 COLUBER EDECL		ich shan	Office Hours & Location: T	BA		
2. COURSE SPECI Course Description		Management is	the profession that desig	ns, plans and operates production (and		
P	Operations Management is the profession that designs, plans and operates production (and service) systems to achieve the goals of the organization. Topics in this course are aligned to					
	_	•		agement of the operations function and		
		· ·	asting, supply chain mana	agement, inventory, resource planning,		
	process design and more.					
Instruction Type	C Classroom instruc		Type	Hours per term		
mstruction type	DE	Distance educa		39		
			Total Hours	39		
Resources		ISBN	Textbook Title & Edition	Author & Publisher		
	126	032687X ·	Operations	William J Stevenson, Hydeh Mottaghi,		
	9781260326871		Management	Behrouz Bakhtiari		
	Other Supp	olies		Source		





	raithei	omp	
		Casio	calculator {McMaster approved model}
			Microsoft Excel®
			Software Package: TBA
Prerequisite(s)	GENTECH 3LS3 and registration in Level III or above of Automation Engineering Technology, Automotive and Vehicle Engineering Technology, or Biotechnology		
Corequisite(s)	NA		
Antirequisite(s)	NA		
Course Specific Policies	It is recommended that students actively participate during class sessions offering insight, comment, reinforcement, argument, contrary views and underscoring examples (if applicable).		
	 Course Communications: It is your responsibility to check Avenue daily – everything you will need is there and any important announcements will be posted there. Set your home page to the news feed for the course. See the Course A2L Website for any updates. We only respond to emails from students' McMaster email accounts. Ensure that your Mac account is activated and has space to receive emails. We reply to emails only once, and if it returns to us as "undeliverable mail" we do not attempt any further replies. We do not respond to emails asking questions to which the answer is readily available in the course outline or Avenue. 		
	Assignments: Variable formats, informed by current issues, and engaging activities. Designed to extend course content beyond lecture and readings and will be assigned according to topic coverage in the Timetable. There will be no make-up/deferred assignments. Late assignments will receive an immediate 10% deduction from the assignment mark up to 24 hours past due. Assignments that have not been submitted within 24 hours after the due date will not be graded and will receive a mark of ZERO.		
	Quizzes: The on-line module quizzes (Avenue to Learn) will consist of multiple-choice, True or False and written response questions designed to ensure that you are keeping up with your cours reading. Highly recommended you study the chapter material in-depth before completing to online quiz. The lowest quiz grade will be dropped automatically. NOTE: If an MSAF is submitted for a quiz, that quiz is considered as the dropped quiz. There will be no make-up/deferred quizzes. Any collaboration, posting or sharing of online quiz questions or answewith other students will constitute academic dishonesty. Midterm Exam: Online - restrictions and requirements are included when midterm announcement is made. Format TBD. Please note that there are no deferred mid-term examinations in this course. If for any reason a student misses a mid-term examination, the value of that examination will be applied to the cumulative final examination (i.e. a missed midterm exam will result in the cumulative final examination being weighted at 55% of the final grade). Final Exam:		
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		Partnership				
	The cumulative final exam will be written during the scheduled examination period. Format TBD.				tion period. Format	
	It is the student's responsibility to check/verify Avenue in a timely fashion that all grades for					
	assignments and in-class activities are logged. No adjustments for missing marks will be					
	considered after the last day of class.					
Departmental	Students must maintain a GPA of 3.5/12 to continue in the program.					
Policies	to do at least 3 hour work includes readir Where group work i The use of cell phon from the classroom Announcements m communicated to al	es of "out-of-class" on any research, assign in sindicated in the context in the context in the class time and in class or a students including	work for every sched ments and preparati purse outline, such co nd other personal el- ne, unless the instruc placed on Avenue	uled hour in on for tests a ollaborative v ectronic devi tor makes an are consid at are not in	work is mandatory. ces are prohibited explicit exception. ered to have been class.	
2 CUR TODIC(C)						
3. SUB TOPIC(S)						
Week 1	January 10 th	Chapter 1: Introd Operations Mana		Quiz 1		
Week 2	January 17 th	Chapter 3: Dema	nd Forecasting	Quiz 2		
Week 3	January 24 th	Chapter 5: Strate	gic Capacity	Quiz 3	Assignment 1	

3. 30D TOTTC(3)				
Week 1	January 10 th	Chapter 1: Introduction to Operations Management	Quiz 1	
Week 2	January 17 th	Chapter 3: Demand Forecasting	Quiz 2	
Week 3	January 24 th	Chapter 5: Strategic Capacity Planning	Quiz 3	Assignment 1
Week 4	January 31st	Chapter 6: Process Design & Facility Layout	Quiz 4	
Week 5	February 7 th	Chapter 11: Inventory Management	Quiz 5	Role-based Assignment 1
Week 6	February 14 th	Chapter 12: Aggregate Operations Planning & Master Scheduling	Quiz 6	Assignment 2
Week 7	February 21st	Midterm Exam		
Week 8	February 28 th	Charter 13: MDD 9 FDD	Quiz 7	Assignment 3
Week 9	March 7 th	Chapter 13: MRP & ERP		
Week 10	March 14 th	Chapter 14: Just-in-time & Lean Production	Quiz 8	Role-based Assignment 2
Week 11	March 21 st	Chapter 15: Supply Chain	Quiz 9	
Week 12	March 28 th	Management		
Week 13	April 4 th	Review for Final Exam		Assignment 4
Week 14	April 11 th	Final Exam: April 17 th		

Classes end: Tuesday, April 12th 2022

Final Examination Period: Thursday, April 14 to Friday, April 29

All examinations MUST be written during the scheduled examination period.

Note that this structure represents a plan and is subject to adjustment term by term.

The instructor and the University reserve the right to modify elements of the course during the term. The University may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification





becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes.

4. ASSESSMENT OF LEARNING *including dates*	Weight		
Quizzes	25%		
Assignments	20%		
Midterm	20%		
Final Examination	35%		
Bonus Work	{+bonus 2%}		
TOTAL	100%		

Percentage grades will be converted to letter grades and grade points per the University calendar.

5. LEARNING OUTCOMES

- 1. Explain how an operations strategy is a pattern of decisions about processes and supply chains that together achieve specific competitive priorities.
- 2. Identify the connections between operations management and other functions of the organization.
- 3. Formulate appropriate solutions in forecasting, inventory, lean systems, capacity, scheduling and resource planning.
- 4. Use computer software (i.e., Excel) and quantitative tools to make operational decisions.

6. COURSE OUTLINE - APPROVED ADVISORY STATEMENTS

ANTI-DISCRIMINATION

The Faculty of Engineering is concerned with ensuring an environment that is free of all discrimination. If there is a problem, individuals are reminded that they should contact the Department Chair, the Sexual Harassment Officer or the Human Rights Consultant, as soon as possible.

http://www.mcmaster.ca/policy/General/HR/Discrimination Harassment Sexual Harassment-Prevention&Response.pdf

ACADEMIC INTEGRITY

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. It is your responsibility to understand what constitutes academic dishonesty.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/

The following illustrates only three forms of academic dishonesty: The following illustrates only three forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained.
- improper collaboration in group work.
- copying or using unauthorized aids in tests and examinations.

AUTHENTICITY / PLAGIARISM DETECTION

Some courses may use a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. For courses using such software, students will be expected to submit their work electronically either directly

ENGINEERING McMaster-Mohawk Bachelor of Technology Partnership



to Turnitin.com or via an online learning platform (e.g. A2L, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty.

Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com, please go to www.mcmaster.ca/academicintegrity.

COURSES WITH AN ON-LINE ELEMENT

Some courses may use on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

ONLINE PROCTORING

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

COMMUNICATIONS

It is the student's responsibility to:

- Maintain current contact information with the University, including address, phone numbers, and emergency contact information.
- Use the University provided e-mail address or maintain a valid forwarding e-mail address.
- Regularly check the official University communications channels. Official University
 communications are considered received if sent by postal mail, by fax, or by e-mail to the student's
 designated primary e-mail account via their @mcmaster.ca alias.
- Accept that forwarded e-mails may be lost and that e-mail is considered received if sent via the student's @mcmaster.ca alias.
- Check the McMaster/Avenue email and course websites on a regular basis during the term.

CONDUCT EXPECTATIONS

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the Code of Student Rights & Responsibilities (the "Code"). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, whether in person or online.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students' access to these platforms.

ACADEMIC ACCOMMODATION OF STUDENTS WITH DISABILITIES





Students with disabilities who require academic accommodation must contact Student Accessibility Services (SAS) at 905-525-9140 ext. 28652 or sas@mcmaster.ca to make arrangements with a Program Coordinator. For further information, consult McMaster University's Academic Accommodation of Students with Disabilities policy.

REQUESTS FOR RELIEF FOR MISSED ACADEMIC TERM WORK

McMaster Student Absence Form (MSAF): In the event of an absence for medical or other reasons, students should review and follow the Academic Regulation in the Undergraduate Calendar "Requests for Relief for Missed Academic Term Work".

ACADEMIC ACCOMMODATION FOR RELIGIOUS, INDIGENOUS OR SPIRITUAL OBSERVANCES (RISO)

Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the RISO policy. Students should submit their request to their Faculty Office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests. http://www.mcmaster.ca/policy/Students-AcademicStudies/Studentcode.pdf

COPYRIGHT AND RECORDING

Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, including lectures by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

EXTREME CIRCUMSTANCES

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

SCHEDULE OF ACTIVITIES

This lecture schedule is based upon current university and public health guidelines and may be subject to changes during the term. Any changes to the schedule or course delivery will be communicated on the course announcements section on Avenue to Learn. Please check the announcements prior to attending class.