

Course Outline

1. COURSE INFORM	ATION					
Session Offered	2016					
Course Name	Strength	n of Material				
Course Code	ENG TECH 3ML3					
Program Name	Civil Engineering and Infrastructure Technology					
	Manufacturing Engineering Technology					
	Classic					
Calendar Description	dimensional stresses stress transformation principal stresses Mohr's circle					
	deflections by integration: energy methods. Castagliano's theorem: columns:					
	yield criteria.					
Instructor	Dr. Eu-G	ene Ng	Phone: 905 525 9140 ext. 2	7916		
			E-Mail: nge@mcmaster.ca			
			Office Hours & Location (if	applicable): ETB 216		
2. COURSE SPECIFIC	S					
Course Description	Definitio	Definitions of normal stress, shearing stress, normal strain, shearing strain;				
	shear fo	shear force and bending moment diagrams; members subjected to axial				
	loading; members subjected to torsional loading; Stress-Strain Analysis: Stress					
	and strain, transformations, principal stresses, graphical representation by					
	Monr's	Mohr's circles of biaxial and triaxial cases, generalized Hooke's law including				
	nlano st	ross problem	tions of equilibrium and com	mas Energy Methods: Strain		
	energy	nrincinles Cas	s, Euler Chilical loads for Cold	inns, Energy Methous. Strain		
	hending	and torsion	al loadings Applications to st	atically indeterminate		
	problen	ns.				
	P					
	Code		Туре	Hours per term		
Instruction Type	С	Classroom instruction		36		
	L	Laboratory, workshop or fieldwork				
	T	Tutorial				
	DE	Distance edi		20		
Deseurees			I Otal Hours	30 Author 9 Dublisher		
Resources			Nochanics of Materials	Author & Publisher		
	252028		5 th Edition	Dewolf LT Mazurek D E		
	332938	-7	5 Luition	Dewoli J.T., Mazurek D.T.		
	Othe	r Supplies	So	Source		
	othe	roupplies				
Prereguisite(s)	Registra	ation in Civil E				
	Enginee	ring Technolo)gv			
Corequisite(s)						
Antirequisite(s)	ENG TE	CH 1ML3, Stre	ength of Material			

Course Specific Policies		This course will be using a range of software. Students should be aware that, when they access the electronic components of this course, 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 this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor. The instructor may also use other software including: e-mail, Avenue, LearnLink, web pages, capa, Moodle, Thinking Cap, etc.				
Departmental Policies		Students must maintain a GPA of 3.5 on a 12 point scale to continue in the program.				
		In order to achieve the required learning objectives, on average, E students can expect to do at least 3 hours of "out-of-class" work f scheduled hour in class. "Out-of-class" work includes reading, res assignments and preparation for tests and examinations.	3.Tech. or every earch,			
		The use of cell phones, iPods, laptops and other personal electronic devices are prohibited from the classroom during the class time, unless the instructor makes an explicit exception.				
		Announcements made in class or placed on Avenue are consid been communicated to all students including those not in class.	ered to have			
3. SUB TO	PIC(S)					
	Review a	nd Concept of Stress	Chp 1			
Week 1	- Unit con - Statics a - Axial loa	nversion, stress strain curve, material mechanical properties analysis, methods of joints ading, shear stress, bearing stress in connection				
Week 2	Quiz 1 Stress and - Normal - Deform	<u>d Strain 1</u> strain, Hooke's law, elastic and plastic behavior ation under axial loading	Chp 2			
Week 3	- Deformation under axial loading Quiz 2 Stress and Strain 2 - Introduction to static indeterminacy, thermal stresses Generalized Heeko's law shearing strain bulk modulus		Chp 2			
Week 4	- Generalized Hooke's law, shearing strain, bulk modulus Chp 4 Quiz 3 Pure Bending - Symmetric member in pure bending Chp 4 Week 4 - Bending deformation and strain - Beam section properties, deformation in transverse cross section - Bending of members made of several materials - Eccentric axial loading in a plane of symmetry					
Week 5	- Eccentric axial loading in a plane of symmetry Quiz 4 Quiz 4 Chp 5 Beams for Bending - - Analysis and design of beams - - Shear and bending moment diagrams - - Relations among load, shear and bending moment -					
Week 6	Mid Term Marking	1 (3 hours) Scheme for Mid Term 1				
Week 7	Transform	nations of Stress and Strain 1 nd strain relations for inclined planes	Chp 7			

	 Principle stresses, maximum shearing stress 		
Do not count	Mid-term recess (row used only for the Winter semester)		
	Quiz 5		Chp 7
Wook 8	Transformation of Stress and Strain 2		
WEEKO	 Mohr's Circle for Plane stress 		
	- Application of Mohr's circle to the three dimensional analysis	of stresses	
	Deflection of Beams		Chp 9
Week 9	 Deformation of beam under Transverse loading 		
Weeks	- Equation of the elastic curve		
	- Analysis of statically indeterminate beams		
	Quiz 6		Chp 10
	Columns		
Week 10	- Stability of structures		
	- Extension of Euler's formula		
	Quiz 7		Chp 11
	Energy Method		
Week 11	- Strain energy		
	- Work and energy under several loads		
	- Castigliano's theorem		
Wook 12	- Deflections by Castigliano's theorem		
Week 12			
Final	Final Exam Marking Schome for Final Exam		
Examination	trusture represents a plan and is subject to adjustment term by	torm	
The instructor	and the University reserve the right to modify elements of the co	urse during tl	he term The
The motification	and the oniversity reserve the light to mounty elements of the co	and a ann a ci	
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6. POLICIES

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/Anti-Discrimination%20policy.pdf

Academic Integrity

Attention is drawn to the Statement on Academic Ethics and the Senate Resolutions on Academic Dishonesty as found in the Senate Policy Statements distributed at registration and available in the Senate Office. Any student who infringes one of these resolutions will be treated according to the published policy.

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and 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.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at:

http://www.mcmaster.ca/policy/Students-AcademicStudies/AcademicIntegrity.pdf

Requests for Relief for Missed Academic Term Work (Assignments, Mid-Terms, etc.)

The McMaster Student Absence Form is a self reporting tool for **Undergraduate Students** to report absences that last up to 5 days and provides the ability to request accommodation for any missed academic work. Please note, this tool <u>cannot</u> be used during any final examination period.

You may submit a maximum of 1 Academic Work Missed requests per term. It is YOUR responsibility to follow up with your Instructor immediately regarding the nature of the accommodation.

If you are absent more than 5 days or exceed 1 request per term you MUST visit your Associate Dean's Office (Faculty Office). You may be required to provide supporting documentation.

This form should be filled out immediately when you are about to return to class after your absence. <u>http://www.mcmaster.ca/msaf/</u>

E-Learning Policy

Consistent with the Bachelor of Technology's policy to utilize e-learning as a complement to traditional classroom instruction, students are expected to obtain appropriate passwords and accounts to access Avenue To Learn for this course. Materials will be posted by class for student download. It is expected that students will avail themselves of these materials prior to class. Avenue can be accessed via http://avenue.mcmaster.ca

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.

Turnitin (Optional)

This course will be using a web-based service (Turnitin.com) to reveal plagiarism. Students will be expected to submit their work electronically to Turnitin.com and in hard copy so that it can be checked

for academic dishonesty. Students who do not wish to submit their work to Turnitin.com must still submit a copy to the instructor. No penalty will be assigned to a student who does not submit work to Turnitin.com. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, etc.). To see the Turnitin.com Policy, please go to http://www.mcmaster.ca/academicintegrity/

Protection of Privacy Act (FIPPA)

The Freedom of Privacy of Information and Protection of Privacy Act (FIPPA) applies to universities. Instructors should take care to protect student names, student numbers, grades and all other personal information at all times. For example, the submission and return of assignments and posting of grades must be done in a manner that ensures confidentiality.

http://www.mcmaster.ca/univsec/fippa/fippa.cfm

Academic Accommodation of Students with Disabilities Policy

The Centre for Student Development is committed to the continuous improvement of accessibility for students with disabilities. Students are encouraged to contact CSD as early as possible before each term starts to become familiar with the services offered and to confirm their accommodations.

Students must forward a copy of the CSD accommodation to the instructor of each course and to the Program Administrator of the B.Tech. Program immediately upon receipt. If a student with a disability chooses NOT to take advantage of a CSD accommodation and chooses to sit for a regular exam, a petition for relief may not be filed after the examination is complete. <u>http://csd.mcmaster.ca</u>

Student Code of Conduct

The Student Code of Conduct (SCC) exists to promote the safety and security of all the students in the McMaster community and to encourage respect for others, their property and the laws of the land. McMaster University is a community which values mutual respect for the rights, responsibilities, dignity and well-being of others. The purpose of the Student Code of Conduct is to outline accepted standards of behavior that are harmonious with the goals and the well-being of the University community, and to define the procedures to be followed when students fail to meet the accepted standards of behavior. All students have the responsibility to familiarize themselves with the University regulations and the conduct expected of them while studying at McMaster University.

http://judicialaffairs.mcmaster.ca/pdf/SCC.pdf