

Course Outline					
1. COURSE INFORMATION	)N				
Session Offered	Fall 202	20			
Course Name	Python	Programming			
Course Code					
	ENGTECH 1PP3				
Date(s) and Time(s) of lectures	L01	C01 Tue 12:30 – 14:20 L01 Thu 18:30 – 20:20			
Program Name		Biotechnology			
Calendar Description	_	Programming concepts and introduction to Python programming. Python syntax, functions, decision-making, looping, operators, arrays and data structures.			
Instructor(s)		im Muhammad	E-Mail: nasimm@mcmaster.ca		
			Location & Office Hours: onlin	ne, by appointment	
2. COURSE SPECIFICS					
Course Description		1			
to the office with a	Code		Type	Hours per term	
Instruction Type	С	Classroom instruction		24	
	L T	L Laboratory, workshop or fieldwork		24	
	T	Tutorial			
	DE Distance education  Total Hours 48				
Resources		ISBN	Textbook Title & Edition	Author & Publisher	
	Print ISBN:		Starting out with Python,		
	978013	4444321, 0134444329	4 <sup>th</sup> Edition	Caddic Tony	
				Gaddis, Tony	
	eText IS	SBN:		Addison-Wesley	
	9780134484693, 013448469X				
		Other Supplies	Source		
	L	abs/Assignments	http://avenue.mc	avenue.mcmaster.ca	
Prerequisite(s)	_		/ Automotive and Vehicle Engineering Technology /		
		ation Engineering Techn	ology		
Corequisite(s)	None				
Antirequisite(s)	None				
Course Specific Policies	•		he lab as specified by the instruc	tor in order to receive	
	<ul><li>a grade for the lab assignment.</li><li>Assignments and lab reports will be submitted through Avenue as per</li></ul>				
	-				
	posted due dates. A submission after the deadline or by e-mail will not be considered for marking or review.				
	All tests/Labs/Assignments marks will be posted on Avenue. It is your				
	_	All tacte/Lahe/Accidence	ante marke will be pected on Avi		
	•	· · · · · · · · · · · · · · · · · · ·	·	•	
	•	responsibility to report	ents marks will be posted on Av any discrepancies to your instru s will be corrected unless repor	uctor before the last	





McMaster standard calculator (CASIO FX 991MS or CASIO FX 991MS Plus) is the only calculator allowed during Test and Exam. The use of other Casio or other brand calculator is strictly prohibited.  Missed Work Policy for Tests: You are required to submit MSAF for missing test(s); otherwise ZERO will be assigned to the grade. After receiving your MSAF:  • First MSAF: The weight of the missing test will be added to the final.  • Second MSAF: A make-up test will be provided for the 2nd missing test.  Students must maintain a GPA of 3.5/12 to continue in the program. In order to achieve the required learning objectives, on average, B.Tech. students can expect to do at least 3 hours of "out-of-class" work for every scheduled hour in class. "Out-of-class" work includes reading, research, assignments and preparation for tests and examinations.  Where group work is indicated in the course outline, such collaborative work is mandatory.  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 considered to have been communicated to all students including those individuals that are not in class. Instructor has the right to submit work to software to identify plagiarism.  3. SUB TOPIC(S)  Week 1 (Sep 8 – 11) Introduction to ENG TECH 1PP3 Course policies, software installation, Introduction to IDE, Basic Concepts of Programming Chapter 2  Sep 14 – 18) Input, Processing and Output Chapter 3  Week 3 (Sep 21 – 25) Decision Structures and Boolean Logic Chapter 3  Week 4 (Sep 28 – Oct 02) Repetition Structures  Week 5 (Oct 05 – Oct 09) Thursday, Oct 8th at 6:30 PM  Week 6 (Oct 12 – 18) Midterm Recess  Week 7 (Oct 19 – 23) Punctions – 1 Chapter 5  (Oct 16 – 30) Finctions – 2 Chapter 5  (Nov 02 – 06) Files and Exceptions		Faithership			
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Neek 3		Introduction to IDE, Basic	Concepts of Programming		
Sep 21 – 25   Decision Structures and Boolean Logic		Input, Processing and Outp	out	Chapter 2	
Repetition Structures   Repetition Structures		Decision Structures and Bo	polean Logic	Chapter 3	
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(Oct 26 – 30)  Week 9  Functions – 2  Chapter 6	(Oct 19 – 23)				
Week 9 Chapter 6		Functions – 2		Chapter 5	
	Week 9	Files and Exceptions		Chapter 6	



Week 10	Term Test - 2	
(Nov 09 – 13)	Thursday, Nov 12 <sup>th</sup> at 6:30 PM	
Week 11 (Nov 16 – 20)	Lists and Tuples	Chapter 7
Week 12 (Nov 23 – 27)	String Manipulation	Chapter 8
Week 13 (Nov 30 – Dec 04)	Dictionaries and Sets	Chapter 9
Week 14 (Dec 07 – 09)	Review, if time permits	

Midterm Recess: Monday, October 12 to Sunday, October 18 Classes end: Wednesday, December 9

Final examination period: Thursday, December 10 to Wednesday, December 23 All examinations MUST be written during the scheduled examination period.

List of experiments		
Lab 1	Input, Processing and Output	
Lab 2	Decision Structures and Boolean Logic	
Lab 3	Repetition Structures	
Lab 4	Functions – 1	
Lab 5	Functions – 2	
Lab 6	Files and Exceptions	
Lab 7	List and Tuples	
Lab 8	String Manipulation	
Lab 9	Dictionaries and Sets	

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
Labs	10%
Quizzes	10%
Q & A sessions (Active Learning)	5%
2 Term Tests (each 20%)	40%
Final exam (tests cumulative knowledge)	35%
TOTAL	100%

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

# 5. LEARNING OUTCOMES

- 1. Apply basic concepts of Python programming such as declare variables, add comments and differentiate between data types.
- 2. Demonstrate the use of decision structures and Boolean logic.
- 3. Select the appropriate type and implement the looping mechanisms for solving problems.
- 4. Construct Python functions for solving application problems.
- 5. Create files and apply file I/O operations to read/write data from/to a file.



6. Organize, modify and manipulate data into appropriate structures such as List, Tuples, Dictionaries and sets.

#### 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 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. <a href="http://www.mcmaster.ca/policy/Students-AcademicStudies/Studentcode.pdf">http://www.mcmaster.ca/policy/Students-AcademicStudies/Studentcode.pdf</a>

# **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.