

# CLASS SYLLABUS



COURSE TITLE: MIDS 147 OBGYN Sonography Procedures 1  
CLASS SECTION:  
TERM:  
COURSE CREDITS: 3  
DELIVERY METHOD(S): Blended

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.  
Learn more about Camosun's [Territorial Acknowledgement](#).

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The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this link: <http://camosun.ca/covid19/faq/covid-faqs-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME: Dustin Pendergast  
Breanna Delgaty  
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[delgatyb@camosun.ca](mailto:delgatyb@camosun.ca)  
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Breanna: CHW 317, 289-788-6827  
HOURS: By Appointment

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

## CALENDAR DESCRIPTION

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Students expand on their understanding of the clinical applications of sonography for the surveillance of pregnancy. Students review anatomic relationships of the female pelvis while learning to recognize the normal and abnormal sonographic appearances of first trimester pregnancy. Students learn to select appropriate

scanning protocols based on patient history, physiologic data, laboratory values, and/or complimentary imaging studies.

PREREQUISITE(S): All of: C+ in MIDS 121; C+ in MIDS 127  
 CO-REQUISITE(S): n/a  
 PRE/CO-REQUISITE(S): C+ in MIDS 137

**COURSE DELIVERY**

ACTIVITY	HOURS / WEEK	# OF WEEKS	ACTIVITY HOURS
Lecture	3	14	42
Seminar			
Lab / Collaborative Learning	2	14	28
Supervised Field Practice			
Workplace Integrated Learning			
Online			
<b>TOTAL HOURS</b>			<b>70</b>

**COURSE LEARNING OUTCOMES**

Upon successful completion of this course a student will be able to:

- a) explain the significance of gestational age, history, laboratory results, patient preparation, and body habitus on the approach to first trimester sonography and discuss the selection of protocols, transducers, and impact on resultant sonographic image quality.
- b) explain how the normal and abnormal sonographic appearance of maternal and fetal anatomy, including the cervix, uterus, endometrium, fallopian tubes, ovaries, vagina, gestational sac, yolk sac, embryonic heart, fetal skeletal system, and umbilical cord alters depending on gestational age, physiological, hormonal, and pathological causes
- c) define and apply the components of a diagnostic examination to first trimester sonography.
- d) explain the significance of measurement techniques used to assess fetal age, anatomy, and growth during gestation

**COURSE OBJECTIVES AND MAPPED PROFESSIONAL COMPETENCIES**

(also known as “sub-outcomes” or “learning objectives”)

**Sonography Canada Competencies:**

- 2.3j Participate in patient education.
- 4.2g Use software calculation packages.
- 5.2c Correlate results from obstetric testing (amniocentesis, chorionic villus sampling, chromosome analysis, cell free DNA, dilation and curettage, non-stress testing).

**Appendix A: Obstetrics and Gynecology**

- 1 GYN, 1st, 2nd, 3rd Adnexa
- 3 GYN, 1st, 2nd, 3rd Cervix
- 4 GYN, 1st Cul-de-sacs
- 5 GYN, 1st Endometrium

6	GYN, 1st	Fallopian tubes
8	GYN, 1st, 2nd, 3rd	Ovaries
9	GYN, 1st, 2nd, 3rd	Urinary bladder
10	GYN, 1st, 2nd, 3rd	Kidneys
11	GYN, 1st	Uterus
12	GYN, 1st	Vagina
14	1st	Gestational sac
15	1st	Fetal pole
31	1st	Gross spinal development
38	1st, 2nd, 3rd	Nasal bones
45	1st, 2nd, 3rd	Fetal heart rate
62	1st, 2nd, 3rd	Stomach
63	1st, 2nd, 3rd	Umbilical cord
67	1st, 2nd, 3rd	Urinary bladder
71	1st	Gross limb development
81	1st, 2nd, 3rd	Placental location / development
87	1st, 2nd, 3rd	Chorionicity
91	1st, 2nd, 3rd	Number of Fetuses
92	1st	Yolk sac

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#### REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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##### Required Texts

Stephenson. (2017). *Obstetrics & Gynecology* (4th ed.). Wolters Kluwer.

Hall-Terracciano, B., & Stephenson, S. R. (2018). *Workbook for diagnostic medical sonography: a guide to clinical practice, obstetrics and gynecology* (4th ed.). Wolters Kluwer.

##### Optional Materials

Hagen-Ansert, S. L. (2018). *Textbook of diagnostic sonography* (8th ed.). St. Louis, MO: Elsevier.

Hagen-Ansert, S. L. (2018). *Workbook for textbook of diagnostic sonography*. St. Louis, MO: Elsevier/Mosby.

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#### COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

##### Expanded Learning Outcome(s)

**c-1)** define and apply the following key components of an ultrasound exam: professional conduct, interpret the request, plan the procedure, establish the patient relationship, execute the procedure and conclude the procedure in relation to pelvic sonography.

WEEK	DATE	TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
1	Sept 7 C/D Lecture	<ol style="list-style-type: none"> <li><b>Module 1:</b> Introduction to Course</li> <li>Review course outline</li> <li>Role of Ultrasound in the First Trimester</li> <li>Sonographic Techniques for the first trimester, ALARA</li> </ol>	(Obstetrics & Gynecology 4 <sup>th</sup> ed)  <b>Chapters 14, 15</b>	a	
	Sept 8 A/B Lecture				
LAB: No Labs Week 1					
2	Sept 13	<ol style="list-style-type: none"> <li><b>Module 2:</b> First Trimester Normal Anatomy/Embryology</li> <li>Overview (Maternal) Endo, tubes, Cul-de-sac, Measuring Cervix</li> <li>Yolk Sac and Amnion Evaluation/Morphology and Placental development/Cord</li> </ol>		b	<i>Appendix A: 1, 3, 4, 5, 6, 8, 9, 10, 11, 12</i>  <i>Appendix A: 63, 81, 92</i>
	Sept 14, 15	LAB: Correlating lab values and gestational age; image optimization practice; Adjusting and Recording techniques for MI and TI indices for power, colour and M-Mode acquisitions. ALARA.		a, d	
3	Sept 20	<ol style="list-style-type: none"> <li><b>Module 3:</b> Introduction to Fetal Growth Charts and embryo/fetal measurement standards; LMP Dating</li> <li>Dating the First Trimester Class Exercises and Practice (Gest Sac/Fetal Pole, CRL), Fetal Heart Rate/M-mode</li> <li>Introduction to Perinatal Services BC standards</li> </ol>		d	<i>Appendix A: 14, 15, 45</i>
	Sept 21, 22	LAB: Introduction to using the measurement packages on the ultrasound equipment		d	4.2g
4	Sept 27	<ol style="list-style-type: none"> <li><b>QUIZ</b></li> <li><b>Module 4:</b> Abnormalities of the 1<sup>st</sup> Trimester</li> <li>First Trimester Bleeding Absent/Abnormal Cardiac Activity</li> <li>Gest. Trophoblastic Disease</li> </ol> <b>SONO SIM Assignment 1 Due</b>	(Obstetrics & Gynecology 4 <sup>th</sup> ed)  <b>Chapter 16</b>	b	
	Sept 28, 29	LAB: Dating Normal Pregnancy on Simulators		c	
5	Oct 4	<ol style="list-style-type: none"> <li><b>Module 4:</b> Evaluating the Ectopic Pregnancy</li> </ol> <b>Workbook Activity 1 Due</b>	(Obstetrics & Gynecology 4 <sup>th</sup> ed)  <b>Chapter 17</b>	b	
	Oct 5, 6	LAB: First Trimester Simulation, Endovaginal Scanning		c-1	
6	Oct 11	<b>Thanksgiving, No Classes</b>		b	
	Oct 12, 13	LAB: <b>First Trimester Exam (Mock Assessment)</b>		c-1	

WEEK	DATE	TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
7	Oct 18	1. <b>Module 4:</b> Cardiac, Cranial Abn. Of the First Trimester. Nasal Bone Assessment in 1 <sup>st</sup> Trimester 2. Abdominal/Stomach/Renal Anatomy and Abnormalities/Oligohyramnios/Polyhydramnios/Bladder 3. Limb, Spinal Development		b	Appendix A: 38, 62, 67  Appendix A: 31, 71
	Oct 19, 20	<b>LAB: Assessment 1: Normal 1<sup>st</sup> Trimester Exam</b>		c-1	
8	Oct 25	1. <b>Review Session</b> 2. <b>MIDTERM</b>			
	Oct 26, 27	<b>LAB: Flex Practice</b>			
9	Nov 1	1. <b>Module 5:</b> Abnormalities of the Pelvis in Pregnancy <b>Asynchronous Activity</b>		b	
	Nov 2, 3	<b>LAB:</b> Endovaginal Assessment of 12 Week, Normal Fetus		c-1, d	
10	Nov 8	1. <b>Module 6:</b> Twin/Multiple Pregnancy Variations/Chorionicity/Amnionity 2. Twin/Multiple Pregnancy Abnormalities	(Obstetrics & Gynecology 4 <sup>th</sup> ed)  <b>Chapter 29</b>	b	Appendix A: 87, 91
	Nov 9, 10	<b>LAB: Assessment 2: Endovaginal First Trimester Assessment</b>		c-1	
11	Nov 15	1. <b>Module 8:</b> Communication Strategies for the pregnant/anxious patient. 2. Educating patients on imaging and exam follow-ups etc. 3. Ethics for the Obstetrical Sonographer 4. In-Class Communications Exercise	D2L Readings		2.3j
	Nov 16, 17	<b>LAB:</b> Communicating Bad News- Group Activity; <b>Flex Practice</b>			
12	Nov 22	1. <b>Module 7:</b> First Trimester Interventions (CVS, Amnio, Termination) Correlating results from various obstetric testing 2. Introduction to Genetics 3. <b>Module 7:</b> Nuchal Translucency 4. First Trimester Risk Assessments <b>Ectopic Pregnancy Assignment Due</b>	(Obstetrics & Gynecology 4 <sup>th</sup> ed)  <b>Chapter 34</b>	a, b	5.2c Appendix A: 40
	Nov 23, 24	<b>LAB:</b> NT Simulations; <b>Flex Practice</b>		c-1	
13	Nov 29	Dementia Simulation with CMLA— <b>on campus activity</b>		b	
	Nov 30, Dec 1	<b>LAB: Assessment 3: Abnormal First Trimester Endovaginal</b>		c-1	
14	Dec 6	<b>Review Session</b> <b>Review Session Cont'd</b>			

WEEK	DATE	TOPIC	READINGS	LEARNING OUTCOMES	SONOGRAPHY CANADA COMPETENCY
		<b>Workbook Assignment 2 Due</b>			
	Dec 7, 8	<b>LAB: FINAL Assessment: Normal 1<sup>st</sup> Trimester Full Exam</b>		c-1	
<b>15</b>		<b>Cumulative Final*</b>			

*\*Do not book travel or flights until the final examination schedule has been published by the registrar.*

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## STUDENT EVALUATION

DESCRIPTION	WEIGHTING
Quiz	5%
SONO Sim Assignment	1%
Ectopic Pregnancy Scan Assignment	6%
Workbook Activity 1 + 2	2%
Skills Assessment 1	7%
Skills Assessment 2	7%
Skills Assessment 3	7%
Final Skills Assessment	25%
Midterm	15%
Final Exam	25%
<b>TOTAL</b>	<b>100%</b>

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

**Students must pass all Critical Criteria in the Professional Performance section, and achieve at least 65% on the Interrogation and Image Quality section of each Skills Assessment.**

**Students must achieve a minimum of 65% for their final grade to pass the course and to use this course as a pre or co-requisite.**

## COURSE GUIDELINES & EXPECTATIONS

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Refer to the [Diagnostic Medical Sonography \(SONO\) Program Handbook](#) for classroom and lab etiquette as well as professional behaviour expectations.

### Quizzes, Midterms & Final Exams

With the exception of emergency circumstances, a student who does not notify the instructor ahead of time about absenteeism or does not have an acceptable reason for being absent the day of the midterm or final exam or a quiz will receive a grade of zero (0%).

Late assignments/submissions will not be graded and will receive a score of zero (0%) unless the student is able to demonstrate emergency. Students must contact the instructor *prior* to submission deadlines

The quiz, midterm and written final exam are administered online via D2L. For these tests, the content is cumulative from all lectures/labs/assigned readings up to that point in the course. Students who perform poorly on the quiz or midterm should seek help from the instructor as early as possible to work together to develop a plan for success.

### Illness and Emergency Circumstances

It is acknowledged that short-term illness or personal priorities that are of critical importance, such as an appointment with a specialist, may occasionally conflict with a course assessment. In this case, as long as the student notifies the instructor before the anticipated absence, the student may be provided the opportunity to make up an assessment. Notifying the instructor by email is considered an acceptable means of communication.

This exception is not intended to be the norm. Students are expected to be present for all course assessments. The instructor will use discretion to determine if the reason for absenteeism is acceptable and/or whether or not absenteeism is problematic. Reasons that are unacceptable include, and are not limited to: birthday parties, family gatherings, employment commitments, etc. Students who miss significant time may be at risk of falling behind in the course. The instructor will use discretion to determine what course of action will be taken for students who miss multiple activities and/or assessments.

Exceptions due to emergency circumstances, such as health problems or unavoidable family crises, require the approval of the instructor. In the case of an emergency, the student may be required to provide verification of the emergency circumstance as early as possible. Personal commitments, such as holidays or scheduled flights, are not considered to be emergencies.

## SCHOOL OR DEPARTMENTAL INFORMATION

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Health & Human Services Student Handbook: <http://camosun.ca/learn/school/health-human-services/student-info/index.html>

General Practicum Information: <http://camosun.ca/learn/school/health-human-services/student-info/practicum-info.html>

Allied Health & Technologies Department Handbooks:

- Certified Medical Laboratory Assistant: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/cmla.html>

- Diagnostic Medical Sonography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/sono.html>
- Medical Radiography: <http://camosun.ca/learn/school/health-human-services/student-info/program-info/mrad.html>

Students enrolled in Allied Health & Technologies Programs must achieve a minimum of 65% or a “COM” in each of their courses in order to use their course as a pre-requisite and progress in their program.

Students enrolled in Allied Health & Technologies Programs must participate in learning activities that include intimate and direct personal contact with their classmates during supervised practice. Students are training to perform the duties of a healthcare professional. These duties usually require constant, close physical contact with patients and clients. Students may be required to simulate and perform these activities on one another during this course. Students may also be required to use special hygiene practices and protective gear to protect themselves from the transmission of communicable diseases (like COVID-19). Risks associated with learning and performing the physical duties of a healthcare profession cannot be entirely eliminated by any amount of caution or protection. Students who refuse, or are incapable of participating and performing these activities due to personal or medical limitations, may only continue to participate in their course work when supported by officially registered accommodations or temporary medical advisory.

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## STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

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## SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>



Support Service	Website
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

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## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun’s Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student’s right to choose what is right for them. For more information see Camosun’s Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-370-3841

### Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College’s Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that

course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.