

GRAYSON COLLEGE

Course Syllabus

Course Information

DNTA 1347 Advanced Dental Science

SPRING 2021

Dental Assisting Program

Online Course hours 3

Clock hours per semester 48

Course Length 16 weeks

Credit Hours 3

Type of instruction Online

Professor Contact Information

Tonya Hance CDA, RDA

(903)463-8780

hancet@grayson.edu

Office Location: Health Science Administration Office 132

Office Hours:	Monday Tuesday Wednesday Thursday Friday	8:00 am to 3:00 pm 8:00 am to 3:00 pm 8:00 am to 12:00 pm 8:00 am to 9:00 am & 1:00 pm to 3:00 pm 1:00 pm to 3:00 pm
Professor's Class Schedule:	Monday Tuesday Wednesday Thursday Friday	8:00 am to 3:00 pm (Clinical Evaluations) 8:00 am to 3:00 pm (Clinical Evaluations) 1:00 pm to 4:00 pm 9:00 am to 12:00 pm 8:00 am to 12:00 pm

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Pre-requisites

DNTA 1311 Dental Science

DNTA 1301 Dental Materials

DNTA 1345 Preventive Dentistry

DNTA 1315 Chairside Dentistry

DNTA 1305 Dental Radiology I

DNTA 1202 Communication in the Dental Office

Co-requisites

DNTA1251 Dental Office Management

DNTA1349 Radiology in the Clinic

DNTA 2130 Clinical Seminar

DNTA1353 Dental Assisting Applications

DNTA 1460 Clinical I Dental Assisting

Course Description – (3-0-3) An advanced study of anatomical systems, pharmacology, or pathology, and developmental abnormalities.

Student Learning Outcomes

Differentiate among the anatomical systems, pharmacology, oral pathology, and developmental abnormalities.

General Course Objectives:

- 1. Identify parts of the skeletal system that are found in the head and neck area.**
 - 2. Identify the major organs and glands in the muscular, circulatory, lymphatic, digestive, respiratory, and nervous systems.**
 - 3. Give a brief description of the primary physiological function of the skin, and each organ and gland.**
 - 4. Name each of the 12 cranial nerves and give a brief description of their function and location.**
 - 5. Define terminology related to oral pathology and describe the different causes and factors of the disease process.**
 - 6. Identify reactions of the oral mucosal tissues to injury.**
 - 7. Define and describe the etiology and general characteristics of neoplasia**
 - 8. Define and describe the different types of retrogressive changes, and the metabolic disturbances that can occur due to these changes.**
 - 9. Describe the developmental disturbances that can occur in the oral cavity, jaws, and surrounding tissues.**
 - 10. Identify some infectious diseases that can cause lesions in the oral cavity.**
 - 11. Name the possible adverse reactions of the drugs most used in the dental office.**
 - 12. Name drugs that are most abused by the general public.**
 - 13. Name the most common dental emergencies, the methods utilized to handle them and the role of the auxiliary in the management of dental emergencies.**
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Required Textbooks (ISBN # included) and Materials

Brand and Isselhard, Anatomy of Orofacial Structures, 7th Edition, C.V. Mosby Co., 2014. (ISBN #: 9780323227841)

Bird and Robinson, Modern Dental Assisting, 13th Edition, Saunders Elsevier, 2020. (ISBN #: 978-0-323-62485-5)

Required Assignments & Academic Calendar

In case of inclement weather, emergency closings, or other unforeseen disruptions to scheduled classes, student must log onto their Canvas accounts for directions on where or how to continue their coursework.

As a secondary means of communication, the app GroupMe will be used. It is not a requirement of the class, but I strongly urge each of you join the class GroupMe. Any announcements such as

inclement weather, class announcements, or in the event class must be canceled due to instructor illness or emergencies an announcement will be made in Canvas, as well as GroupMe.

The Schedule below will have the Course assignments.

The Schedule listed below is subject to change with fair notice from the professor. Changes will be announced via Canvas through Announcements or GroupMe.

Table 1 Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	Jan. 11- 17	<ul style="list-style-type: none"> • Read the Syllabus • Read Grayson’s Online Attendance Policy <ul style="list-style-type: none"> • Take Syllabus Quiz -Due 1/17/2021 by 11:59 pm
2	Jan. 18-24	<ul style="list-style-type: none"> • Read Chapters 7 Dental Anomalies, & Chapter 8 Supporting Structures The Periodontium in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapters 7 & 8 Assignment- Due 1/24/2021 by 11:59 pm
3	Jan. 25-Jan. 31	<ul style="list-style-type: none"> • Read Chapter 8 Oral Embryology and Histology in your MDA book. • Watch/Listen to the Lecture • Complete Chapter 8 Assignment- Due 1/31/2021 by 11:59 pm
4	Feb. 1-7	➤ Test #1 Opens C-7, 8, & MDA 8 (Due 2/7/2021 by 4:00 pm)- Must be taken in the testing center
5	Feb. 8-14	<ul style="list-style-type: none"> • Read Chapter 19 Dental Lamina and Enamel Organ & Chapter 20 Enamel, Dentin, and Pulp in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapters 19 & 20 Assignment- Due 2/14/2021 by 11:59 pm
6	Feb. 15-21	<ul style="list-style-type: none"> • Read Chapter 21 Root Formation and Attachment Apparatus & Chapter 23 Oral Mucous Membrane in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapters 21 & 23 Assignment- Due 2/21/2021 by 11:59 pm

7	Feb. 22- Feb. 28	➤ Test #2 Opens C-19, 20, 21 & 23 (Due 2/28/2021 by 4:00 pm) -Must be taken in the testing center
8	Mar. 1-7	<ul style="list-style-type: none"> • Read Chapter 24 The Tongue in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapter 24 Assignment- Due 3/1/2021 by 11:59 pm
	Mar. 8-14	<p style="text-align: center;">Spring Break!!! Enjoy Your Break!!</p>
9	Mar. 15-21	<ul style="list-style-type: none"> • Read Chapter 25 Histology of the Salivary Glands in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapter 25 Assignment- Due 3/21/21 by 11:59 pm
10	Mar. 22- Mar. 28	<ul style="list-style-type: none"> • Read Chapters 28 Muscles of Mastication, Hyoid Muscles, and Sternocleidomastoid and Trapezius Muscles in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapter 28 Assignment-Due 3/28/2021 by 11:59 pm
11	Mar. 29- Apr. 4	➤ Test #3 Opens C-24, 25, & 28 (Due 4/4/2021 by 4:00 pm) - Must be taken in the testing center
12	Apr. 5-11	<ul style="list-style-type: none"> • Read Chapter 31 Soft Palate and Pharynx in your Anatomy of OS Book • Watch/Listen to the Lecture • Complete Chapter 31 Assignment- Due 4/5/2021 by 11:59 pm
13	Apr. 12-18	<ul style="list-style-type: none"> • Read Chapters 32 Arterial Supply and Chapter 33 Venous Drainage in your Anatomy of OS Book • Watch/Listen to the Lecture • Work on Completing Assessment #4 (Due 4/18/2021 by midnight)
14	Apr. 19-25	• Test #4 Opens C-31, 32, & 33 (Due 4/25/2021 by 4:00 pm)- Must be taken in the testing center
15	Apr. 26-May 2	<ul style="list-style-type: none"> • Prepare for the Final • You have the option to take the final early- see below
16	May 3-6	<p style="text-align: center;">Comprehensive Final Exam Will Open 4/26/21 @ 7:00 am & Close 5/5/2021by 4:00 pm- Must be taken in the testing center</p>

Chapter 7 Dental Anomalies

Course Outline

- Classification of Dental Anomalies
- Anomalies in Shape
 - Odontoma
 - Dens in Dente
 - Dilaceration
 - Dwarfed Roots
 - Gemination
 - Fusion
 - Concrescence
 - Hypercementosis
 - Enamel Pearls
 - Hutchison's
 - Enamel Dysplasia
 - Dentinogenesis Imperfecta
 - Tetracycline Staining
- Abnormal Crown Shapes
- Abnormal Root Formation

Expected Learning Outcomes (Objectives)

1. To define dental anomaly
2. To discuss intrinsic factors
3. To discuss extrinsic factors
4. To discuss the difference between hereditary and congenital factors
5. To define the various anomalies listed in this chapter

Chapter 8 Supporting Structures The Periodontium

Course Outline:

- Gingival Unit
 - Free Gingiva (Marginal Gingiva)

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- Attached Gingiva
- Alveolar Mucosa
- Attachment Unit: Periodontium
 - Cementum
 - Alveolar Bone
 - Periodontal Ligament
- Gingival Sulcus and Dentogingival Junction

Expected Learning Outcomes (Objectives)

1. To understand the relationships within the gingival unit, a supporting structure of the teeth
2. To understand the terminology of the gingival unit and to identify its various parts
3. To understand how the gingival unit functions
4. To understand how the attachment apparatus is related to the gingival unit.
5. To understand the relationship of cementum, periodontal ligament, and alveolar bone
6. To identify the components of the alveolar process
7. To understand the clinical significance of the gingival sulcus
8. To understand how the fibers of the periodontal ligament function in tooth movement and shock absorption

Chapter 8 Oral Embryology and Histology (Modern Dental Assisting Book)

Course Outline:

- Oral Embryology
 - Prenatal Development
- Embryonic Development of the Face and Oral Cavity
 - Primary Embryonic Layers
 - Early Development of the Mouth
 - Branchial Arches
 - Hard and Soft Palates
 - Facial Development
 - Tooth Development
- Developmental Disabilities
 - Genetic Factors
 - Environmental Factors
- Facial Developmental After Birth
 - Tooth Movement
- Life Cycle of a Tooth
 - Growth Periods
 - Calcification
 - Eruption of Primary Teeth
 - Shedding of Primary Teeth
 - Eruption of Permanent Teeth

- Oral Histology
 - Crown
 - Root
 - Enamel
 - Dentin
 - Cementum
 - Pulp
- Periodontium
 - Attachment Apparatus
 - Gingival Unit

Expected Learning Outcomes (Objectives)

1. Pronounce, define, and spell the key terms.
2. Define embryology and discuss this important phase of development, including the following:
 - Describe the three periods of prenatal development.
 - Discuss prenatal influences on dental development.
 - Describe the stages of development of the hard and soft palates.
 - Describe the stages in the development of a tooth.
 - Name the genetic and environmental factors that can affect dental development.
 - Describe the functions of osteoclast and osteoblasts.
3. Describe the life cycle of a tooth.
4. Define histology and discuss its importance, including the following:
 - Explain the difference between clinical and anatomical crowns.
 - Name and describe the tissues of the teeth.
 - Name and describe the three types of dentin.
 - Describe the structure and location of dental pulp.
 - Name and describe the components of the periodontium, including the functions of periodontal ligaments.
 - Describe the various types of oral mucosa and give an example of each.

Chapter 19 Dental Lamina and Enamel Organ

Course Outline:

- Dental Lamina
- Enamel Organ
 - Bud Stage
 - Cap Stage
 - Bell Stage
 - Functions of the Four Layers of the Enamel Organ
- Successional Lamina
- Vestibular Lamina

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- Dental Papilla and Dental Sac

Expected Learning Outcomes (Objectives)

1. To define the dental lamina and indicate in what embryonic week it is first seen
2. To describe the bud, cap, and bell stages and the various layers found in each
3. To define successional and vestibular laminae
4. To describe the dental papilla, the dental sac, and their functions

Chapter 20 Enamel, Dentin, and Pulp

Course Outline:

- Dental Papilla
- Enamel Composition
- Development of Enamel
- Fate of Enamel Organ
- Abnormalities of Enamel
 - Hypocalcified Enamel
 - Hypoplastic Enamel
 - Enamel Lamellae
 - Enamel Tuft
 - Enamel Spindle
- Dentin Composition
- Formation of Regular Dentin (Primary Dentin)
- Formation of Secondary Dentin and Reparative Dentin
 - Secondary Dentin
 - Reparative Dentin
- Abnormalities in Dentin
 - Interglobular Dentin
 - Dead Tracts
 - Sclerotic Dentin
- Pulp
- Abnormalities in Pulp

Expected Learning Outcomes (Objectives)

1. To discuss the changes in cells of the inner enamel epithelium (IEE) allowing them to become enamel-forming cells
2. To discuss the interrelationship between enamel formation and dentin formation
3. To describe the role of the dental papilla in the formation of the enamel organ and the shaping of the crown
4. To describe the properties of enamel and the makeup of the enamel rod
5. To describe the keyhole shape of the enamel rod and the direction of the hydroxyapatite crystals in different areas of the cross section of the rod

6. To define the following terms: striae of Retzius, hypoplastic enamel, hypocalcified enamel, enamel lamellae, enamel tuft, and enamel spindle
7. To describe the properties and components of dentin
8. To differentiate between primary, secondary, and reparative dentin
9. To define the following terms: interglobular dentin, dead tracts, sclerotic dentin
10. To describe the components and age-related changes of pulp
11. To describe and classify pulp stones

Chapter 21 Root Formation and Attachment Apparatus

Course Outline:

- Root Formation
- Attachment Apparatus
 - Dentinocemental Junction
 - Cementum
 - Alveolar Bone
 - Periodontal Ligament
- Structural Overview
- Bone Remodeling in Tooth Movement

Expected Learning Outcomes (Objectives)

1. To discuss the role of the epithelial root sheath in root formation and dentin formation
2. To describe the fate of the epithelial root sheath
3. To describe the beginning of cementum formation, the two varieties, and where they are found
4. To define and diagram alveolar bone and its components
5. To define periodontal ligament and list its various groups and subgroups of fibers
6. To briefly describe bone's reaction to pressure and tension and how this affects tooth movement

Chapter 23 Oral Mucous Membrane

Course Outline:

- Divisions of Mucous Membrane
- Masticatory Mucosa
- Lining Mucosa
- Submucosa
- Passive Eruption
- Changes in Oral Mucosa

Expected Learning Outcomes (Objectives)

1. To name the three categories of the oral mucosa and discuss where they found

2. To name the three stages of keratinization of oral mucous membrane and discuss where these different types are found
3. To discuss the factors that affect the mobility of various types of the mucosa
4. To understand what the submucosa is and where it is found
5. To describe the four stages of passive eruption
6. To describe the typical picture of the normal gingiva
7. To describe some of the changes seen in diseased gingiva

Chapter 24 The Tongue

Course Outline:

- Development of the Tongue
- Tongue Muscles
- Papillae
 - Circumvallate or Vallate Papillae
 - Fungiform Papillae
 - Filiform Papillae
 - Foliate Papillae

Expected Learning Outcomes (Objectives)

1. To describe the formation of the tongue as it relates to the germ layers and its pharyngeal arches of origin
2. To discuss the difference between the extrinsic and intrinsic muscles of the tongue
3. To describe briefly how tongue movement is accomplished
4. To describe the papillae of the tongue and their function
5. To describe the kinds of changes seen on the tongue that indicate health problems

Chapter 25 Histology of the Salivary Glands

Course Outline:

- Components of a Salivary Gland
 - Acini
 - Serous Acini
 - Seromucous Acini
 - Mucous Acini
 - Connective Tissue Capsule
 - Duct System
 - Intralobular Ducts
 - Interlobular Ducts

- Control of Secretions
- Formation of Saliva
- Function of Saliva

Expected Learning Outcomes (Objectives)

1. To describe the components of a salivary gland
2. To describe the duct system of a salivary gland
3. To describe the arrangement of the cells of a mixed salivary gland
4. To describe how saliva is formed and modified before secretion
5. To describe the function of saliva

Chapter 28 Muscles of Mastication, Hyoid Muscles, and Sternocleidomastoid and Trapezius Muscles

Course Outline:

- Muscles of Mastication
 - Masseter Muscle
 - Temporal Muscle
 - Medial Pterygoid Muscle
 - Lateral Pterygoid Muscle
- Hyoid Muscles
 - Suprahyoid Group
 - Infrahyoid Group
- Movements of the Jaw and Larynx
 - Mandibular Protrusion
 - Mandibular Retrusion
 - Lateral Excursion of the Mandible
 - Elevation of the Mandible
 - Depression of the Mandible, Opening of the Mouth
 - Laryngeal Movements
- Sternocleidomastoid Muscle
- Trapezius Muscle

Expected Learning Outcomes (Objectives)

1. To describe the origin, insertion, action, and nerve and blood supply of the muscles of mastication
2. To categorize the muscles according to their roles in elevation, depression, protrusion, retrusion, and lateral excursion of the mandible
3. To describe the functions of the sternocleidomastoid and trapezius muscles and their roles in referred pain to various areas, including the temporomandibular joint
4. To name the suprahyoid and infrahyoid muscles and their roles in mandibular movement,

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swallowing, and phonation

Chapter 31 Soft Palate and Pharynx

Course Outline:

- Soft Palate
 - Palatoglossus Muscle
 - Palatopharyngeus Muscle
 - Muscle of the Uvula
 - Levator Veli Palatini
 - Tensor Veli Palatini
- Pharynx
 - Pharyngeal Constrictors
 - Pharyngeal Elevators and Dilators
- Actions
 - Speech
 - Swallowing

Expected Learning Outcomes (Objectives)

1. To describe the origins, insertions, actions, and nerve supplies of the muscles of the soft palate and pharynx
2. To describe the interrelationship of all these muscles in chewing, swallowing, and speech

Chapter 32 Arterial Supply and Venous Drainage

Course Outline:

- Arterial Supply
 - Common Carotid Artery
- Venous Drainage
 - Juglar Veins

Expected Learning Outcomes (Objectives)

1. To trace blood from the time it returns from the vena cava to the heart, out, and back until it returns from the entire body
2. To trace blood supply from the heart to all areas of the oral cavity, including teeth
3. To trace venous drainage from teeth and oral cavity back to the heart
4. To define hematoma
5. To discuss the possible problems associated with a posterior superior alveolar injection

Chapter 33 Salivary Glands

Course Outline:

- Major Salivary Glands
 - Parotid Gland
 - Submandibular (Submaxillary) Gland
 - Sublingual Gland
- Minor Salivary Glands
 - Labial Glands
 - Buccal Glands
 - Palatine Glands
 - Gossopalatine Glands
 - Lingual Glands
- Development of Salivary Ducts

Expected Learning Outcomes (Objectives)

1. To describe the differences between the major and minor salivary glands
2. To name and locate each of the major and minor glands
3. To classify each of the glands according to its type of secretion
4. To describe the function of saliva
5. To describe the development of the ducts and the ductless glands

Methods of Evaluation Grading

Categories	Percentage
Assessments/Quizzes/Attendance	25%
Major Test/Online Discussions	40%
Comp. Final Exam	35%
	100%

Grade	
90-100	A
80-89	B
75-79	C
74-70	D
69 or Below	F

Grades will be posted via

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Canvas

Late Work Policy

NO LATE WORK ACCEPTED.

Extra Credit Policy

NO EXTRA CREDIT WILL BE GIVEN.

Major Test

1. Test will be graded via Canvas and the grade will post once the student has submitted the exam.
2. REFER to the Student Handbook for complete quiz and test policies.
3. Tests and/or Exams fall into the tests category and make up 40% of your grade.
4. The test will open @ 7:00 am the Monday of the week they are due, and close on Friday @ 4:00 pm of that same week.
5. **ALL TEST HAVE TO BE TAKEN IN THE TESTING CENTER- THE STUDENT IS RESPONSIBLE FOR ARRIVING AT THE TESTING CENTER AND ALLOWING ENOUGH TIME TO COMPLETE THE TEST PRIOR TO THE CLOSING OF THE TESTING CENTER. THE STUDENT IS ALSO RESPONSIBLE FOR CHECKING AND MONITORING CHANGES IN THE TESTING CENTER CLOSING TIMES.**
6. There are 4 Major Test not including the Final Examination.

Online Discussions

Please see the online grading rubric posted in your course.

Class Participation

This course is 100% Online. Participation in the class is key to your success. It is your responsibility as the student to login into the course and complete the assignments/test on time.

Assessment

Assessments will open @ 7:00 am on Monday of the week they are assigned. They will close at midnight on Sunday of the week prior to the test.

Final Exam

1. The final will be given via Canvas and is a timed Exam.
2. The final Exam accounts for 35% of your grade.
3. It is a timed and is a Comprehensive Final Exam meaning any material covered in this course could be subject to being on the Final Exam.
4. The final Exam will open @ 7:00 am the week of finals and will only remain open for two

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days. It will close at 4:00 PM on the second day.

5. **The Final Exam MUST be taken in the Testing Center. The student is responsible for checking the testing center hours and arriving at the testing center in plenty of time complete the test before the 4:00 pm deadline.**

Methods of Instruction

1. Online Discussions
2. Power Point Presentations
3. Videos/ You Tube presentations
4. Homework Assignments/ Assessments
5. Tests

Course & Instructor Policies

Class Attendance

Academic success is closely associated with regular attendance and course participation. All successful students, whether on campus or online, are expected to be highly self-motivated. All students are required to participate in courses regularly and are obliged to participate in class activities and complete and submit assignments following their professors' instructions. Students taking courses during compressed semester time frames such as mini-mester, summer sessions, and mid-semester should plan to spend significantly more time per week on the course. Responsibility for work missed because of illness or school business is placed upon the student. More than two (2) absences are excessive. In addition, students' eligibility to receive financial aid or live in a College dormitory can be affected by withdrawal from courses. When withdrawal occurs, any tuition refund would be made in accordance with state regulations.

Since this is an online class your attendance will be assessed based on your participation in the course.

Student Conduct & Discipline

Students are to maintain classroom decorum that includes respect for other students and the professor.

Disruptive behaviors such as harassment of fellow students and/or professors will not be tolerated. Students will be counseled initially but may be dismissed from the class for repeated offenses.

PLEASE REFER TO THE STUDENT HANDBOOK FOR DETAILED RULES AND POLICIES.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, and the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Plagiarism, especially from the web, from portions of

papers for other classes, and from any other source is unacceptable.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the college's policy on plagiarism (see GC Student Handbook for details). Grayson College subscribes to turnitin.com, which allows faculty to search the web and identify plagiarized material.

Student Responsibility

You have already made the decision to go to college; now the follow-up decisions on whether to commit to doing the work could very well determine whether you end up working at a good paying job in a field you enjoy or working at minimum wage for the rest of your life. Education involves a partnership that requires both students and instructors to do their parts. By entering into this partnership, you have a responsibility to show up for class, do the assignments and reading, be engaged and pay attention in class, follow directions, and put your best effort into it. You will get out of your experience here exactly what you put into it – nothing more and nothing less.

TITLE IX

GC policy prohibits discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex, sexual orientation, spousal affiliation and protected veterans status.

Furthermore, Title IX prohibits sex discrimination to include sexual misconduct: sexual violence (sexual assault, rape), sexual harassment and retaliation.

For more information on Title IX, please contact:

- Dr. Molly M. Harris, Title IX Coordinator (903)463-8714
- Ms. Logan Maxwell, Title IX Deputy Coordinator - South Campus (903) 415-2646
- Mr. Mike McBrayer, Title IX Deputy Coordinator - Main Campus (903) 463-8753
- Website: <http://www.grayson.edu/campus-life/campus-police/title-ix-policies.html>
- GC Police Department: (903) 463-8777- Main Campus) (903-415-2501 - South Campus)
- GC Counseling Center: (903) 463-8730
- For Any On-campus Emergencies: 911

****Grayson College is not responsible for illness/injury that occurs during the normal course of classroom/lab/clinical experiences.**

****These descriptions and timelines are subject to change at the discretion of the Professor.**

**** Grayson College campus-wide student policies may be found at the following URL on the College website:**

<https://www.grayson.edu/currentstudents/Academic%20Resources/index.html>