Meeting Times

**Lecture/Discussion**

*Weekly*

- **Term:** Spring 1; 4 Jan 2021 - 5 March 2021
- **Tuesday Evenings:** 5:30 PM - 9:30 PM, Mountain Standard Time (Denver)
- **First Class:** Tuesday, 5 Jan 2021
- **Last Class:** Tuesday, 2 March 2021

**Location:** This class will be presented primarily via the Zoom platform. *However, on the first night (5 Jan '21) I plan to conduct Session #1 from campus, if COVID-19 restrictions permit.*

As the Term progresses, we will evaluate the option of moving the class to campus, while maintaining the Zoom option for either remote students or students whom may be responding to local/individual circumstances driven by COVID-19. *Plan on flexibility throughout the Term. Both local (Colorado Springs) and remote students should plan of having the capability of attending via Zoom, as circumstances warrant.* Local students should have the capability of on-campus attendance, as required.

- All classes will be interactive, with Video and Audio. Students will need a camera, microphone and speakers to take this class.

*See Note on textbook below; we are shifting to the 4th edition (2015) of the textbook (Sellers, "Understanding Space").*

**Zoom Sessions:**

- [https://webster-edu.zoom.us/](https://webster-edu.zoom.us/)
- *Note: This is webster-DASH-edu.zoom.us; note the 'DASH' is not a 'DOT')*

When joining my meetings:

- **This Class will be at**: [https://webster-edu.zoom.us/j/96877778938](https://webster-edu.zoom.us/j/96877778938) ([https://webster-edu.zoom.us/j/96877778938](https://webster-edu.zoom.us/j/96877778938))
- **Meeting ID:** 968 7777 8938

**SPSM 5000 The Space Environment**

Description: Weekly Sessions of SPSM 5000 for Webster University, Colorado Springs Metro Campus

I will generally open the Zoom room ~15 mins before scheduled class start.

*All Times Shown are US Mountain Time (Denver)*

**Contact Information**

- **Email:** kendrickyouden@webster.edu
- **Office:** 7193318673
- **Phone:** 7193318673
- **Website:** Webster University
- **Daytime Office:** 7193318673
- **Backup Email:** Ken.youden@gmail.com

**Description**

Students will examine the concepts and terminology of the space environment, including the ionosphere, the magnetosphere, radiation, human factors and limitations, solar effects, near-Earth and deep space operations, propulsion systems, satellite communications systems, spacecraft design, ground control and supporting infrastructures, manning, technical support, outsourcing, and large-scale long-term space
operations. The orbital elements within the space environment and the broad range of parameters and constraints of navigation and operations in space are explored. Students are introduced to the mathematics of orbital mechanics and determination techniques, and learn how to calculate orbital parameters.

Requisites
None

Outcomes

The student will:

- Develop an understanding and working knowledge of space terms and phraseology.
- Acquire a broad understanding of the space environment, space operating principles and general applications of space technology.
- Demonstrate a basic working knowledge of orbital mechanics and the associated math.
- Comprehend the roles, responsibilities, and tools of a space system manager.
- Acquire a basic knowledge of spacecraft subsystems and the survivability of the human element.
- Gain an understanding of the basics of the Department of Defense (DoD) Acquisition system.
- Assess their ability to handle the math, critical decision making and technical management skills.
- Conduct and produce graduate level research papers and practice oral presentation methods.
- Demonstrate their understanding and proper application of APA.
- Develop skills in the use of common graduate program technologies – PowerPoint, Internet, Passports, e-Reserves, Connections and Turnitin.
- Understand the challenges of the Space Systems Operations Management (MS) program and the importance of thinking about the capstone course in terms of research focus or projects that can demonstrate their ability to synthesize and integrate the learning experiences acquired in space operations and to evaluate current topics relative to this major.

Required Textbook

Understanding Space

Author: Sellers
Publisher: Learning Solutions
Edition: 3rd
ISBN: 978-0073407753

Deliverables

Deliverables will be as Follows:

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Description</th>
<th>Max Points</th>
<th>% of Total Grade</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Description</td>
<td>Brief paragraph describing research topic title and intent (thesis)</td>
<td>50</td>
<td>5%</td>
<td>Week 3 (19 Jan 2021)</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>Exam will cover Weeks 1 - 4, inclusive (see schedule below)</td>
<td>250</td>
<td>25%</td>
<td>Week 5 (2 Feb 2021)</td>
</tr>
<tr>
<td>Presentation</td>
<td>7 - 10 minute presentation to Instructor and fellow students on your research findings. Presentation may be either via Zoom or on campus, depending on Class Schedule (COVID-19 status will require flexibility throughout the Term)</td>
<td>150</td>
<td>15%</td>
<td>Weeks 7 &amp; 8: (16 &amp; 23 Feb '21) ~50% of students will be scheduled in Week 7, with the balance in Week 8. Note: If Class is less than 10, we may adjust the schedule to place all students in Week 8</td>
</tr>
</tbody>
</table>
Research Paper: Deliverable will be a Research Paper on a relevant topic from Space Operations and Management field. Paper will be formatted per current American Psychological Association (APA) standards, per Webster University practices. Paper may be connected with the student's professional experience or personal interest, as appropriate. Body of the paper will be 7 - 9 pages. Research will form the core of the student presentation (see above).

250 25% Research papers are due at the beginning of class, Week 8 (23 Feb 21).

Final Exam: Exam will cover Weeks 5 - 8, inclusive (see schedule below)

250 25% Week 9 (2 March 2021)

Participation: Williness to contribute to class discussions

50 5% Weekly, Weeks 1 - 9

Total Potential Points: 1000

Evaluation

Each of the Deliverables above has been assigned a maximum potential point value as follows:

<table>
<thead>
<tr>
<th>Factor</th>
<th>Max Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Description</td>
<td>100</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>350</td>
</tr>
<tr>
<td>Presentation</td>
<td>200</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300</td>
</tr>
<tr>
<td>Participation</td>
<td>50</td>
</tr>
<tr>
<td>Total Potential Points:</td>
<td>1000</td>
</tr>
</tbody>
</table>

"Bonus" points will be offered during or as part of certain activities.

Based on total earned points earned during the Term, letter grades will awarded at the end of the Term as follows:

<table>
<thead>
<tr>
<th>Points Earned Across the Term, All Deliverables, Cumulative</th>
<th>Percentage Earned (Equivalent)</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>940 - 1000</td>
<td>94 - 100 =</td>
<td>A</td>
</tr>
<tr>
<td>900 - 939</td>
<td>90 - 93.99 =</td>
<td>A -</td>
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<tr>
<td>870 - 899</td>
<td>87 - 89.99 =</td>
<td>B +</td>
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<tr>
<td>830 - 869</td>
<td>83 - 86.99 =</td>
<td>B</td>
</tr>
<tr>
<td>800 - 829</td>
<td>80 - 82.99 =</td>
<td>B -</td>
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<tr>
<td>700 - 799</td>
<td>70 - 79.99 =</td>
<td>C</td>
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<tr>
<td>699 or less</td>
<td>Below 70 =</td>
<td>F</td>
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</tbody>
</table>

Schedule

See Chart below for Course Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Broad Topic</th>
<th>Sub-Topics</th>
<th>Text Chapters</th>
<th>Supplemental Material</th>
<th>Specific Chapter Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week</td>
<td>Date</td>
<td>Topic</td>
<td>Subtopics</td>
<td>Reading</td>
<td>Sections</td>
<td>Notes</td>
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</tr>
<tr>
<td>1</td>
<td>5-Jan-20</td>
<td>Foundational Material</td>
<td>Why Study Space?</td>
<td>1, 2, 16</td>
<td>None</td>
<td>Full Chapters</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Space Mission Architecture</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Brief History of Astronomy</td>
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<td></td>
<td></td>
<td></td>
<td>The Space Enterprise</td>
<td></td>
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<tr>
<td>2</td>
<td>12-Jan-21</td>
<td>The Space Environment</td>
<td>A Cosmic Perspective</td>
<td>3</td>
<td>None</td>
<td>Full Chapter</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Where is Space?</td>
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<td>The Solar System</td>
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<td>The Cosmos</td>
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<td></td>
<td>Space Environment And Spacecraft</td>
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<td></td>
<td>Living And Working In Space</td>
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<tr>
<td>3</td>
<td>19-Jan-21</td>
<td>Fundamentals of Space Dynamics</td>
<td>Orbits and Orbital Motion</td>
<td>4, 5, 6</td>
<td>None</td>
<td>To be published</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Classical Orbital Elements (COEs) (Ch 5)</td>
<td></td>
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<td></td>
<td>Holman Transfers (Ch 6)</td>
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<tr>
<td>4</td>
<td>26-Jan-21</td>
<td>Propulsion Principles</td>
<td>Orbital Perturbations (Ch 8)</td>
<td>8, 14</td>
<td>None</td>
<td>Ch 8: 298 – 304 Ch 9: 317 – 326 Ch 14: 639 - 665</td>
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<td></td>
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<td></td>
<td>Rocket Science (Ch 14)</td>
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<td></td>
<td>Jeopardy Round #1</td>
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<tr>
<td>5</td>
<td>2-Feb-21</td>
<td>Space Systems Management</td>
<td>Systems Engineering</td>
<td>11</td>
<td>None</td>
<td>To Be Published</td>
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<td></td>
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<td></td>
<td>Project/Program Management</td>
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<td>Midterm</td>
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<tr>
<td>6</td>
<td>9-Feb-21</td>
<td>Spacecraft Control &amp; Spacecraft Navigation Systems</td>
<td>Remote Sensing</td>
<td>12</td>
<td>None</td>
<td>Ch 12: 481-512</td>
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<td></td>
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<td>Control Systems</td>
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<td>Attitude Control</td>
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<td>Midterm</td>
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<tr>
<td>7</td>
<td>16-Feb-21</td>
<td>Space Systems Survivability</td>
<td>Environmental Control And Life Support Subsystem (ECLSS)</td>
<td>13</td>
<td>None</td>
<td>Sections 13.4 and 13.5</td>
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<td>Structures And Mechanisms</td>
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<td>Student Presentations</td>
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<td></td>
<td>Session #1</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Assignment</td>
<td>Notes</td>
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<tr>
<td>8</td>
<td>23-Feb</td>
<td>Space Application: Recent Developments Beyond the Textbook</td>
<td>None</td>
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<tr>
<td></td>
<td></td>
<td>Military Space Systems Acquisition</td>
<td>National Policy Space Directive #1</td>
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<tr>
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<td></td>
<td>A Review of the Trump Administration &amp; Recent Space Initiatives</td>
<td>National Policy Space Directive #2</td>
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<td>Student Presentations</td>
<td>National Policy Space Directive #3</td>
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<td>Session # 2</td>
<td>National Policy Space Directive #4</td>
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<td>Jeopardy Round #2</td>
<td>National Policy Space Directive #5</td>
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<td></td>
<td>NSP’s will be provided by website and or .pdf files</td>
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<tr>
<td>9</td>
<td>2-Mar-21</td>
<td>Final Exam</td>
<td>None</td>
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</tbody>
</table>

**Course Policies**

**Note on Textbook:**
The text will be the outstanding work by Jerry Sellers, "Understanding Space." The Bookstore still lists the 3rd Edition, which came out in 2005.

*I strongly recommend students obtain the 4th Edition (2015). (Even the 4th edition is being outpaced by the rapid changes since 2015).*

The 4th Edition comes in both e-book and hard copy formats. I use both almost weekly, but can highly recommend the e-book edition. It has resources simply not available in a traditional hard copy text. For example, each Chapter comes with videos, and hyperlinks to additional resources. Additionally, it is possible to purchase the book Chapter by Chapter, although the entire book is worth purchasing.

Book is available, hard copy and e-book here:


**ZOOM & Classroom Etiquette**

- We will use Zoom to try and duplicate the professional classroom setting to the best possible extent. With that in mind, a few basic rules that are familiar on campus should serve us well in Zoom:
  - Attend every session. That's our school's policy, both on campus and remote.
  - Be on time. Classes start at 5:30 pm. I will strive to respect your time; please respect the time of your fellow classmates and my time as well.
  - That said, life happens. If you are going to be late, please tell me, via email (both Webster email and my gmail account, above). I will gladly work with you to make up what you miss. I understand we all have busy lives; I have been in your shoes.

**Dress Code:** Campus appropriate.

**Video:** on, by all means. We will all have a more productive session if we can see and hear each other. Body language is critical in the communications and learning process. Please mute mics if not speaking. I may ask a student to help me monitor the chat line.

- Breakout Rooms may be used; we’ll go over them prior to use.
- Zoom permits great flexibility for all of us. We will be learning together how to maximize its capabilities while minimizing its drawbacks

**Class Attendance & Absences**

Students are expected to attend each session, for the full session. Students are responsible to make up missed work, assignments, etc. Unexcused and/or excessive absences will be subject to the appropriate academic penalties, per University guidelines. If you need to be excused, please send me on Outlook appointment noting your absence and reason. Let me know.

Before Class. In order to work with you for illnesses, business travel, extended work hours, family issues and emergencies, etc., I need to know about it. We are all professional adults, with jobs, family, and other stressors. I get it. I want all of you there, every class session. I actually do! But life happens, and we can work through those tight spots together. Communication and a willingness to make up the missed time will be best for all of us.

**Research Paper**

The University uses the American Psychological Association (APA) format, currently in its 7th Edition.
The APA guide is available at the below website, from the Campus Bookstore, and other major e-commerce websites, etc.

Webster offers several resources in the online library:
https://libguides.webster.edu/apastyle


Additionally Purdue University runs a well known and widely recognized Online Writing Laboratory (OWL) here:
https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html

This is a Graduate Level course, please ensure your citations and research format is in accordance with APA, 7th Edition.

Student Presentations

- Each student will be required to present their summarized research findings to the class. This will support the Course Objectives of:
- "Conduct and produce graduate level research papers and practice oral presentation methods."*
- Each presentation will be between 7 - 10 minutes and you should cover:
  - Your research purpose (e.g. your thesis; what you were attempting to discover/confirm/explore/discuss/examine)
  - Your core sources e.g. (Whom did you consult? What resources did you discover?)
  - Your core findings: E.g. What did you discover? What did you learn? What assumptions were proven true, which ones were perhaps unfounded; what surprised you as you explored the topic? How can you summarize your research and share what you learned to your fellow graduate students?
  - What areas of your topic would you explore further, given time/resources? What is "next," logically in your area of study for this Research Paper

You may use any typical presentation software: PowerPoint or similar, Excel, graphics, diagrams, images, etc.

Your presentation should allow for dynamic interaction with fellow students and the Instructor (e.g. Q&A).

Your presentation should be presented "live," either in the campus classroom or via the Zoom Classroom.

Taped presentations will not be permitted, as that does not accomplish the learning objective.

Institutional Policies

Academic Policies

Academic policies provide students with important rights and responsibilities. Students are expected to familiarize themselves with all academic policies that apply to them. Academic policies for undergraduate students can be found in the Undergraduate Studies Catalog; graduate students should review the Graduate Studies Catalog.

Undergraduate Studies Catalog

The Undergraduate Studies Catalog contains academic policies that apply to all undergraduate students. The academic policies and information section of the catalog contains important information related to attendance, conduct, academic honesty, grades, and more. If you are an undergraduate student, please review the catalog each academic year. The current Undergraduate Studies Catalog is at:

http://www.webster.edu/catalog/current/undergraduate-catalog/

Graduate Studies Catalog

The Graduate Studies Catalog contains academic policies that apply to all graduate students. The academic policies section of the catalog contains important information related to conduct, academic honesty, grades, and more. If you are a graduate student, please review the catalog each academic year. The current Graduate Studies Catalog is at:

http://www.webster.edu/catalog/current/graduate-catalog/

Grading

The Grades section of the academic catalog outlines the various grading systems courses may use, including the information about the final grade reported for this class.

Undergraduate
http://www.webster.edu/catalog/current/undergraduate-catalog/academic-policies.html#grading

Graduate
http://www.webster.edu/catalog/current/graduate-catalog/academic-policies.html#grading
Incomplete

There are important policies that govern grades of Incomplete (I), including the circumstances under which Incomplete grades are granted, deadlines for completion, and consequences should the remaining course work not be completed. It is the responsibility of a student who requests an Incomplete to ensure that he/she understands and follows the policies.

Grade Appeals

Instructors are responsible for assigning grades, and student should discuss grade issues with the instructor. Policies and procedures for appealing grades are available in the appropriate catalog.

Academic Honesty Policy

Webster University is committed to academic excellence. As part of our Statement of Ethics, we strive to preserve academic honor and integrity by repudiating all forms of academic and intellectual dishonesty, including cheating, plagiarism and all other forms of academic dishonesty. Academic dishonesty is unacceptable and is subject to a disciplinary response. Students are encouraged to talk to instructors about any questions they may have regarding how to properly credit others’ work, including paraphrasing, quoting, and citation formatting. The university reserves the right to utilize electronic databases, such as Turnitin.com, to assist faculty and students with their academic work.

The University’s Academic Honesty Policy is published in academic catalogs:

Undergraduate
http://www.webster.edu/catalog/current/undergraduate-catalog/academic-policies.html

Graduate
http://www.webster.edu/catalog/current/graduate-catalog/academic-policies.html

As a part of the University commitment to academic excellence, the Academic Resource Center provides student resources to become better acquainted with academic honesty and the tools to prevent plagiarism in its many forms:

http://www.webster.edu/arc/plagiarism_prevention/ (http://www.webster.edu/arc/plagiarism_prevention/)

Statement of Ethics

Webster University strives to be a center of academic excellence. The University makes every effort to ensure the following:

- The opportunity for students to learn and inquire freely
- The protection of intellectual freedom and the rights of professors to teach
- The advancement of knowledge through scholarly pursuits and relevant dialogue

To review Webster University’s statement of ethics, see the Undergraduate Studies Catalog and the Graduate and Studies Catalog:

Undergraduate
http://www.webster.edu/catalog/current/undergraduate-catalog/overview.html#ethics

Graduate
http://www.webster.edu/catalog/current/graduate-catalog/ethics.html

Contact Hours for this Course

It is essential that all classes meet for the full instructional time as scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, the content must be covered at another time.

Important Academic Resources

Academic Accommodations

Webster University makes every effort to accommodate individuals with academic/learning, health, physical and psychological disabilities. To obtain accommodations, students must identify themselves and provide documentation from a qualified professional or agency to the appropriate campus designee or the Academic ADA Coordinator at the main campus. The Academic ADA Coordinator may be reached at
If you have already identified as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor of the accommodations you will require for this class at the beginning of the course.

**Academic Resource Center**

Additional support and resources may be accessed through the Academic Resource Center (ARC). Support and resources include academic counseling, accommodations, assistive technology, peer tutoring, plagiarism prevention, testing center services, and writing coaching. Visit [www.webster.edu/arc](http://www.webster.edu/arc) or Loretto Hall 40 on the main campus for more information.

**Student Success Portal**

Webster University's Student Success Portal, powered by Starfish, is a communications tool to connect students with faculty members and campus support services. It allows faculty and staff members to communicate with you regarding academic achievements as well as areas where support may be helpful. You may use the portal to contact faculty and staff members for assistance and to arrange meetings. Activity in the portal will be communicated to your Webster University email account. The Student Success Portal is available via your course home page in WorldClassRoom or via Connections. Learn more about the Student Success Portal at [http://www.webster.edu/success/students.html](http://www.webster.edu/success/students.html).

**University Library**

Webster University Library is dedicated to supporting the research needs and intellectual pursuits of students throughout the University's worldwide network. Resources include print and electronic books, journal articles, online databases, DVDs and streaming video, CDs and streaming music, datasets, and other specialized information. Services include providing materials at no cost and research help for basic questions to in-depth exploration of resources. The gateway to all of these resources and services is [http://library.webster.edu](http://library.webster.edu). For support navigating the library’s resources, see [http://libanswers.webster.edu/](http://libanswers.webster.edu/) for the many ways to contact library staff.

**Drops and Withdrawals**

Drop and withdrawal policies dictate processes for students who wish to unenroll from a course. Students must take proactive steps to unenroll; informing the instructor is not sufficient, nor is failing to attend. In the early days of the term or semester, students may DROP a course with no notation on their student record. After the DROP deadline, students may WITHDRAW from a course; in the case of a WITHDRAW, a grade of W appears on the student record. After the WITHDRAW deadline, students may not unenroll from a course. Policies and a calendar of deadlines for DROP and WITHDRAW are at:

- **Undergraduate**

- **Graduate**
  [http://www.webster.edu/catalog/current/graduate-catalog/enrollment.html](http://www.webster.edu/catalog/current/graduate-catalog/enrollment.html)

- **Academic Calendar** - [http://www.webster.edu/academics/academic-calendar/](http://www.webster.edu/academics/academic-calendar/)

Current tuition rates, policies, and procedures, including details of pro-rated tuition refunds, are available in the "Tuition, Fees, and Refunds" section of Webster’s Academic Catalogs:

- **Undergraduate**

- **Graduate**
  [http://www.webster.edu/catalog/current/graduate-catalog/tuition.html](http://www.webster.edu/catalog/current/graduate-catalog/tuition.html)

**Student Handbook and Other Important Policies**

Student handbook and other non-academic policies may apply to you and may impact your experience in this class. Such policies include the student code of conduct, privacy, technology and communications, and more. Please review the handbook each year and be aware of policies that apply to you. The handbook is available at:


**Sexual Assault, Harassment, and Other Sexual Offenses**
Webster University makes every effort to educate the community to prevent sexual assault, harassment, and other sexual offenses from occurring, and is committed to providing support to those affected when this behavior does occur. To access information and resources or to review the Policy on Sexual Assault, Harassment, and Other Sexual Offenses, visit:

http://www.webster.edu/sexual-misconduct/

Research on Human Subjects

The Webster University Institutional Review Committee (IRB) is responsible for the review of all research on human subjects. The IRB process applies to all Webster University faculty, staff, and students and must be completed prior to any contact with human subjects. For more information on the IRB, visit:

http://www.webster.edu/irb/index.html

Course Evaluations

At the end of this course, you will have the opportunity to provide feedback about your experience. Your input is extremely valuable to the university, your instructor, and the department that offers this course. Please provide your honest and thoughtful evaluation, as it helps the university to provide the best experience possible for all of its students.

Important Technology Information

Connections Accounts

Webster University provides all students, faculty, and staff with a University email account through Connections. Students are expected to activate their Connections account and regularly check incoming University email. Students may choose to have their University email forwarded to an alternate email address. Connections account holders can call the Help Desk (314-246-5995 or toll free at 1-866-435-7270) for assistance with this setup. Instructions are also provided on the Information Technology website at:

http://www.webster.edu/technology/service-desk/

WorldClassRoom

WorldClassRoom is Webster's Learning Content Management System (LMS). Your instructor may use WorldClassRoom to deliver important information, to hold class activities, to communicate grades and feedback, and more. WorldClassRoom is available using your Connections ID at:

https://worldclassroom.webster.edu/

Webster Alerts

Webster Alerts is the University's preferred emergency mass notification service, available free to current students, faculty and staff at all US campuses. By registering a valid cell phone number and email address, you will receive urgent campus text, voice mail and email communications. Valuable information concerning a range of incidents affecting you - from weather-related campus closures, class delays and cancellations, to more serious or life-threatening events - are immediately and simultaneously delivered through multiple communication channels. To register for Webster Alerts, visit:

http://www.webster.edu/technology/services/webster-alerts/

Campus Information

Colorado Springs Metro Campus:
5475 Tech Center Dr #110, Colorado Springs, CO 80919

This Course will be presented in Mountain Standard Time (Denver).