AU PHYS 110 Astronomy
WAU PHYS 150 Descriptive Astronomy
Self-Paced Full Term Courses
This course follows a self-paced online format. You have 180 days from your selected start date to complete the course. The last day to withdraw with a full refund is 15 days after your start date.

Instructor Contact
Please refer to course in LearningHub for the teacher contact information.

Communication with the Instructor
It is important to remember that while the Internet is available 24 hours a day, your instructor is not. You can expect that your instructor will respond to e-mail message to you within 2 business days during the week and may not be available to respond on weekends.

Other Assistance
<table>
<thead>
<tr>
<th>Assistance</th>
<th>Helpdesk Email Address</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username and password assistance</td>
<td><a href="mailto:helpdesk@andrews.edu">helpdesk@andrews.edu</a></td>
<td>(269) 471-6016</td>
</tr>
<tr>
<td>Enrollment and withdrawal questions</td>
<td><a href="mailto:sderegister@andrews.edu">sderegister@andrews.edu</a></td>
<td>(269) 471-6323</td>
</tr>
<tr>
<td>Technical assistance with online courses</td>
<td><a href="mailto:dlit@andrews.edu">dlit@andrews.edu</a></td>
<td>(269) 471-3960</td>
</tr>
<tr>
<td>Exam requests and online proctoring</td>
<td><a href="mailto:sdeexams@andrews.edu">sdeexams@andrews.edu</a></td>
<td>(269) 471-6566</td>
</tr>
<tr>
<td>Distance Student Services - any other questions</td>
<td><a href="mailto:sdestudents@andrews.edu">sdestudents@andrews.edu</a></td>
<td>(269) 471-6566</td>
</tr>
</tbody>
</table>

Part 1: Course Information

Course Description
Andrews University
Exploring the cosmic environment—the solar system, stars and their development, star clusters, the interstellar medium, galaxies and large-scale features of the Universe. Includes a distance laboratory component and meets the Andrews General Education Physical Science requirement. Does not apply to a major or minor.

Course Prerequisites
Andrews University
MPE P2 or MATH 145 or 166 or STAT 285 or equivalent.

Course Learning Outcomes
- To convey an appreciation of God’s creativity and power in designing a universe filled with beauty and capable of sustaining life.
- To spark a life-long interest in astronomy.
- To develop an appreciation for the merits and limitations of the methods of science. Contrasts between science and Pseudoscience and Astrology will be drawn. Our dynamic understanding of the Universe will be especially emphasized through historical example. Measurement uncertainties inherent in
astronomy will be experienced first-hand through laboratory experiments analyzing astronomical data.

- To highlight the appropriate ways in which science informs Christian faith.
- To convey a sense of the scale and grandeur of the Universe and an appreciation of our purpose for being.

**Required Text/Material**

Astronomy Lab Kit as listed on the online bookstore.

**The software, Starry Night, is used for labs and comes with the new textbook. If purchasing a used textbook, please make sure it comes with a copy of this software.**

**Lab Materials:**
- Bathroom Scale (please supply your own)
- Stopwatch (please supply your own or use your cellphone’s stopwatch feature)
- Astronomy Lab Kit as listed in the Andrews bookstore.

**NOTE:** Purchase textbooks through any online bookstore, such as [amazon.com](http://amazon.com), which can deliver within 2 days. If you need to use financial aid to purchase textbooks, email sdestudents@andrews.edu, cutting and pasting the textbook information from syllabi, including course title and section, your full name and student ID#.

**Credit Hour and Commitment**
This course is offered for 4 semester credits; therefore it is expected that you will spend 180 hours total on this course. Suggested schedule(s) to accomplish this work are included in this syllabus.

**Part 2: Course Methods and Delivery**

**Methods of Instruction**
Methods of instruction include assigned readings from the textbook and the course material, journals, assignments, labs, a reaction paper, a presentation, and two exams. Regular participation in the course is essential to good performance.

**Course/Technical Requirements**
- Internet connection (DSL, LAN, or cable connection desirable).

**LearningHub Access**
This course is delivered online through LearningHub at [http://learninghub.andrews.edu](http://learninghub.andrews.edu)

Your username and password are your Andrews username and password. You need to activate your username and password to access LearningHub.

Please do this online here:
https://vault.andrews.edu/vault/pages/activation/information.jsp if you haven’t already. If you need assistance, call or email us: (296) 471-6016 or helpdesk@andrews.edu.

If you need technical assistance at any time during the course, or to report a problem with LearningHub, please email dlit@andrews.edu or call (269) 471-3960.

**Part 3: Course Requirements**

**Important Note:** Activity and assignment details will be explained in detail within each learning module. If you have any questions, please contact your instructor.

**Assessment Descriptions**

**Textbook Readings:** Read the assigned section of the textbook. Though you may feel somewhat overwhelmed by the volume of material from this first pass, the goal of the course is not rote memorization of facts. As you proceed, you will find certain ideas consistently emphasized in the text, the lessons, and the homework. Focus on those key principles.

**Lesson Readings:** Carefully read the lessons, especially any detailed information or calculational hints. I have deliberately included specific exam preparation material in the lessons.

**Assignments/Homework (20% of your grade):** Answer the on-line homework questions. Again, many of the exam questions are related to questions you will have encountered in your homework assignments. Your answers to homework questions need not be long-winded and exhaustive. Usually a couple of key ideas with the appropriate terminology will suffice.

**Laboratories (20% of your grade):** As with any science, astronomy is based on observations of the universe. Some of these observations are made within a laboratory, but many are carried out on very distant objects using telescopes, etc. Apply your knowledge with the on-line laboratories found each week on the LearningHub content page. Each experiment is assigned in conjunction with the corresponding course reading material.

**Journals (10% of your grade):** Please submit a 3-4 paragraph response to the questions in the dropbox (links on the content page). This is a time to reflect and think on the things you have learned during the week.

**Reaction Paper (20 pts; 5% of your grade):** You are required to read one article, book chapter or essay relating faith and astronomy and write a two page reaction paper based on your reading. First, summarize the material from your reading and then write your response. For full credit, the paper should include references to at least three sources. Submit your paper as a Word document for grading and plagiarism checks. Details on the style of the paper may be found at [http://www.ccc.commnet.edu/mla/index.shtml](http://www.ccc.commnet.edu/mla/index.shtml) and a sample paper may be viewed at [http://www.bedfordstmartins.com/hacker/pdf/chicago.pdf](http://www.bedfordstmartins.com/hacker/pdf/chicago.pdf). A list of potential articles, book chapters, web-sites, videos and essays are included at the end of this syllabus. You may choose your own topic if you wish, but should check with the instructor first. If you are uncomfortable writing about the relationship between faith and astronomy, you may pursue a topic relating philosophy and astronomy. The rubric for the reaction paper is found below.
Presentation (30 pts; 5% of your grade): Students will summarize the conclusions of their reaction paper in a brief (approximately 10 minute presentation). As a distance-learning student, you will need to videotape your presentation using either a digital video camera, a webcam or a cell phone and upload the video file here for the instructors evaluation. Take pride in presenting your thoughts and the rubric below will be used to evaluate your presentation.

Rubrics

**Reaction Paper**

<table>
<thead>
<tr>
<th></th>
<th>Outstanding - 5</th>
<th>Commendable - 3</th>
<th>Acceptable - 1</th>
<th>Not Acceptable - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>Clearly states essential question and position engaging reader</td>
<td>Clearly states question and position</td>
<td>States question and position</td>
<td>Fails to state essential question or position</td>
</tr>
<tr>
<td><strong>Support: Development</strong></td>
<td>Thorough, accurate content that relates to topic and supports position, logical sequence of arguments</td>
<td>Accurate content helps support position</td>
<td>Content related to topic</td>
<td>Lacking in Content</td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
<td>Strong concluding paragraph, summarizes and restates position and highlights of supporting data</td>
<td>Concluding paragraph restating important points</td>
<td>Concluding paragraph</td>
<td>No concluding paragraph</td>
</tr>
<tr>
<td><strong>Mechanics</strong></td>
<td>Correct grammar, spelling and diction</td>
<td>Few errors in written English</td>
<td>Generally correct English</td>
<td>Many grammatical or spelling errors</td>
</tr>
</tbody>
</table>

**Presentation**

<table>
<thead>
<tr>
<th></th>
<th>Outstanding - 5</th>
<th>Commendable - 3</th>
<th>Acceptable - 1</th>
<th>Not Acceptable - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>Powerfully introduces the topic and essential question</td>
<td>Clearly introduces the topic and essential question</td>
<td>Introduces the topic and essential question</td>
<td>Does not introduce the essential question</td>
</tr>
<tr>
<td><strong>Appearance Rapport</strong></td>
<td>Confident, engaging, at ease</td>
<td>Some confidence, engagement and ease</td>
<td>Adequate engagement</td>
<td>Appearance or gestures distract</td>
</tr>
<tr>
<td><strong>Organization and Focus</strong></td>
<td>Material is clearly focused, logical sequencing, timing between 8 and 10 minutes</td>
<td>Material is focused, logical with timing between 8 and 10 minutes</td>
<td>Clear introduction and conclusion and within 8 to 10 minutes duration</td>
<td>Logical sequence missing or unclear. Presentation less than 8 minutes and greater than 10 minutes</td>
</tr>
<tr>
<td><strong>Information Content</strong></td>
<td>Information accurate, concise and interesting. Details and examples are used to make information more meaningful</td>
<td>Information accurate and relevant, details and examples are used</td>
<td>Information covers major issues related to topic</td>
<td>Information is inaccurate with important data missing.</td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
<td>Conclusion answers the essential question and summarizes the presenters informed opinion</td>
<td>Conclusion addresses the essential question</td>
<td>Conclusion summarizes thoughts of presenter</td>
<td>Conclusion does not address the essential question and the presenter expresses no opinion</td>
</tr>
<tr>
<td><strong>Visual Aids</strong></td>
<td>Skillfully executed visual aids are employed which enhance arguments and present evidence</td>
<td>Competently prepared visual aids are employed</td>
<td>Visual aids are employed</td>
<td>Poor-quality Visual aids distract from issue</td>
</tr>
</tbody>
</table>
Materials Used in the Labs
The following items are used in the lab assignments.
LAB 1: Measurement
• Measuring Tape
• Microsoft Excel (or Libre Office)
LAB 2: Celestial Globe
• Starry Night Software
LAB 3: Size of Earth
• Starry Night Software
LAB 4: Distances and Sizes in Astronomy
• Microsoft Paint (Or alternative for Mac)
LAB 5: Drawing Ellipses
• Paper
• Cardboard
• Thumb Tacks (2)
• String
• Camera/Scanner
• Calculator (recommended)
LAB 6: Mercury Orbit
• Starry Night Software
• Protractor
• Graph Paper (Provided if Printed out)
• Printer
LAB 7: Mass of Jupiter
• Starry Night Software
LAB 8: Acceleration Due to Gravity
• Provided Images
• Microsoft Paint
• Microsoft Excel
• Stop Watch
• Nut/Washer
• String
• Ruler
LAB 9: Spectra
• Microsoft Excel
LAB 10: Lenses and Telescopes
• The Lenses (4 cm and 12 cm)
LAB 11: Radioactivity
• 100 Pennies
• Microsoft Excel (Or a graph with a camera)
LAB 12: Height of Lunar Mountain
• Microsoft Paint
LAB 13: Moon
• Starry Night Software
LAB 14: Solar Rotation
• Microsoft Paint
LAB 15: Blackbody Radiation
• Microsoft Excel
LAB 16: Stellar Properties
• Nothing
LAB 17: HR Diagram
Exams
Exams must be completed in the presence of an approved proctor without the assistance of books, notes, devices or outside help unless otherwise specified in the exam review and exam directions.

Please review the current policy on approved proctors before completing the exam request form, which is linked through your course space. It is your responsibility to make arrangements for an approved proctor (unless living near the main campus) and to complete the exam request form at least two weeks prior to each exam date. Bring an official photo ID to show the proctor at the start of the exam session.

The midterm exam is worth 20% of your grade. You are allowed 120 minutes to complete this exam. The final exam is worth 25% of your grade. You are allowed 120 minutes to complete this exam.

If you cannot take your exam within the period noted in the email regarding exam arrangements, email sdeexams@andrews.edu with the reason you cannot meet this deadline, and a proposed alternate time within a week, and prior to the course end date.

Completed exams are never available to you or your proctor. Instructors provide feedback on exams other than the final exam. Exam grades can be viewed in the course space, and the final course grade is included in the University Academic Record accessible through your IVUE page.

Suggested 16-Weeks Completion Schedule

<table>
<thead>
<tr>
<th>Module</th>
<th>Lessons</th>
<th>Readings</th>
<th>Assignments</th>
<th>Course Objectives Met (example CO2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro</td>
<td>Introduction &amp; Orientation</td>
<td>Orientation Writing Expectations</td>
<td>Submit: Schedule Tell About Me Academic Honesty</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Introduction</td>
<td>Read Syllabus Read Why Study Astronomy Read Introductory Lesson Watch Introductory Lecture</td>
<td>Preview Assignment Journal 1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cycles of the Sky</td>
<td>Read Lesson 1 Read Explorations, Chapter 1 pp. 14 - 37, Cycles of the Sky</td>
<td>Labs 1 &amp; 2 Assignment 1 Journal 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The Rise of Astronomy</td>
<td>Read Lesson 2 Read Explorations, Chapter 2 pp. 38 – 71, The Rise of Astronomy and Backyard Astronomy Watch Lecture 2</td>
<td>Labs 3 - 6 Assignment 2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Newton’s Laws</td>
<td>Read Lesson 3 Read Explorations, Chapter 3 pp. 72 - 87, Gravity and Motion Watch Lecture 3</td>
<td>Labs 7 &amp; 8 Assignment 3 Journal 3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Light, Atoms and Telescopes</td>
<td>Read Lesson 4 Read Explorations, Chapter 4 - 5 pp. 88 - 145, Light and Atoms and Telescopes Watch Lectures 4, 4a, 4b</td>
<td>Labs 9 &amp; 10 Assignment 4 Journal 4</td>
<td></td>
</tr>
<tr>
<td>Module</td>
<td>Lessons</td>
<td>Readings</td>
<td>Assignments</td>
<td>Course Objectives Met (example CO2)</td>
</tr>
<tr>
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<td>-------------------------------------</td>
</tr>
</tbody>
</table>
| 6      | Earth, Moon and Time | Read Lesson 5  
Read Explorations, Chapter 6 – 7 pp. 146 - 199, The Earth and Moon  
Watch Lectures 5, 5a, 5b, 5c | Labs 11 – 13  
Assignment 5  
Journal 5 |                       |
| 7      | The Solar System | Read Lesson 6  
Read Explorations, Chapter 8 pp. 200 – 223, Survey of the Solar System  
Watch Lectures 6, 6a, 6b, 6c, 6d | Assignment 6  
Journal 6 |                       |
| 8      | Midterm Exam | | |                       |
| 9      | The Sun | Read Lesson 7  
Read Explorations, Chapter 12 pp. 304 – 327, The Sun, Our Star  
Watch Lecture 7 | Lab 14  
Assignment 7  
Journal 7 |                       |
| 10     | Stars | Read Lesson 8  
Read Explorations, Chapter 13 pp. 328 – 359, Measuring the Properties of Stars  
Watch Lecture 8 | Labs 15 – 17  
Assignment 8  
Journal 8 |                       |
| 11     | Stellar Evolution | Read Lesson 9  
Read Explorations, Chapter 14 pp. 360 – 389, Stellar Evolution  
Watch Lecture 9 | Assignment 9  
Journal 9 |                       |
| 12     | Stellar Death | Read Lesson 10  
Read Explorations, Chapter 15 pp. 390 – 411, Stellar Remnants  
Watch Lecture 10 | Assignment 10  
Assignment 11  
Journal 10 |                       |
|        | Milky Way Galaxy | Read Lesson 11  
Read Explorations, Chapter 16 pp. 412 – 443, The Milky Way Galaxy  
Watch Lecture 11 |                       |                       |
| 13     | Galaxies | Read Lesson 12  
Read Explorations, Chapter 17 pp. 444 – 479, Galaxies. Part I: Ordinary Galaxies  
Watch Lecture 12 | Assignment 12 |                       |
|        | Cosmology | Read Lesson 13  
Read Explorations, Chapter 18 pp. 480 – 507, Cosmology  
Watch Lecture 13 |                       |                       |
| 14     | Cosmology | Read Lesson 12  
Read Explorations, Chapter 17 pp. 444 – 479, Galaxies. Part I: Ordinary Galaxies  
Watch Lecture 12 | Lab 18  
Assignment 13  
Journal 11 |                       |
| 15     | |                  | Journal 12  
Reaction Paper  
Final Presentation |                       |                       |
| 16     | Semester Exam | | |                       |

**Suggested 8-Weeks Completion Schedule**

<table>
<thead>
<tr>
<th>Module</th>
<th>Lessons</th>
<th>Readings</th>
<th>Assignments</th>
<th>Course Objectives Met (example CO2)</th>
</tr>
</thead>
</table>
| Intro  | Introduction & Orientation | Orientation  
Writing Expectations | Submit: Schedule  
Tell About Me  
Academic Honesty |                       |
| 1      | Introduction | Read Syllabus  
Read Why Study Astronomy  
Read Introductory Lesson  
Watch Introductory Lecture | Preview  
Assignment  
Journal 1 |                       |
<table>
<thead>
<tr>
<th>Module</th>
<th>Lessons</th>
<th>Readings</th>
<th>Assignments</th>
<th>Course Objectives Met (example CO2)</th>
</tr>
</thead>
</table>
| 2      | Cycles of the Sky | Read Lesson 1  
Read Explorations, Chapter 1 pp. 14 - 37, Cycles of the Sky  
Watch Lecture 1 | Labs 1 & 2  
Assignment 1  
Journal 2 | |
|        | The Rise of Astronomy | Read Lesson 2  
Read Explorations, Chapter 2 pp. 38 – 71, The Rise of Astronomy and Backyard Astronomy  
Watch Lecture 2 | Labs 3 - 6  
Assignment 2 | |
|        | Newton’s Laws | Read Lesson 3  
Read Explorations, Chapter 3 pp. 72 - 87, Gravity and Motion  
Watch Lecture 3 | Labs 7 & 8  
Assignment 3  
Journal 3 | |
| 3      | Light, Atoms and Telescopes | Read Lesson 4  
Read Explorations, Chapter 4 - 5 pp. 88 - 145, Light and Atoms and Telescopes  
Watch Lectures 4, 4a, 4b | Labs 9 & 10  
Assignment 4  
Journal 4 | |
|        | Earth, Moon and Time | Read Lesson 5  
Read Explorations, Chapter 6 – 7 pp. 146 - 199, The Earth and Moon  
Watch Lectures 5, 5a, 5b, 5c | Labs 11 – 13  
Assignment 5  
Journal 5 | |
| 4      | The Solar System | Read Lesson 6  
Read Explorations, Chapter 8 pp. 200 – 223, Survey of the Solar System  
Watch Lectures 6, 6a, 6b, 6c, 6d | Assignment 6  
Journal 6 | |
|        | Midterm Exam | | | |
| 5      | The Sun | Read Lesson 7  
Read Explorations, Chapter 12 pp. 304 – 327, The Sun, Our Star  
Watch Lecture 7 | Lab 14  
Assignment 7  
Journal 7 | |
|        | Stars | Read Lesson 8  
Read Explorations, Chapter 13 pp. 328 – 359, Measuring the Properties of Stars  
Watch Lecture 8 | Labs 15 – 17  
Assignment 8  
Journal 8 | |
|        | Stellar Evolution | Read Lesson 9  
Read Explorations, Chapter 14 pp. 360 – 389, Stellar Evolution  
Watch Lecture 9 | Assignment 9  
Journal 9 | |
| 6      | Stellar Death | Read Lesson 10  
Read Explorations, Chapter 15 pp. 390 - 411, Stellar Remnants  
Watch Lecture 10 | Assignment 10  
Assignment 11  
Journal 10 | |
|        | Milky Way Galaxy | Read Lesson 11  
Read Explorations, Chapter 16 pp. 412 – 443, The Milky Way Galaxy  
Watch Lecture 11 | | |
|        | Galaxies | Read Lesson 12  
Read Explorations, Chapter 17 pp. 444 – 479, Galaxies. Part I: Ordinary Galaxies  
Watch Lecture 12 | Assignment 12 | |
|        | Cosmology | Read Lesson 13  
Read Explorations, Chapter 18 pp. 480 – 507, Cosmology.  
Watch Lecture 13 | | |
| 7      | Cosmology | Read Lesson 12  
Read Explorations, Chapter 17 pp. 444 – 479, Galaxies. Part I: Ordinary Galaxies  
Watch Lecture 12 | Lab 18  
Assignment 13  
Journal 11 | |
| 8      | Journal 12  
Reaction Paper  
Final Presentation | | | |
Completing Assignments
All assignments for this course will be submitted electronically through LearningHub unless otherwise instructed. Assignments and exams must be completed within 180 days of course registration date. This timeframe is subject to change depending on deadlines set by your home institution.

Part 4: Grading Policy

Graded Course Activities

<table>
<thead>
<tr>
<th>Percent %</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Journals 1-12</td>
</tr>
<tr>
<td>20</td>
<td>Assignments 1-18</td>
</tr>
<tr>
<td>20</td>
<td>Labs 1-18</td>
</tr>
<tr>
<td>20</td>
<td>Midterm Exam</td>
</tr>
<tr>
<td>25</td>
<td>Final Exam</td>
</tr>
<tr>
<td>5</td>
<td>Reaction Paper</td>
</tr>
<tr>
<td>5</td>
<td>Presentation</td>
</tr>
<tr>
<td>100</td>
<td>Total Percent Possible</td>
</tr>
</tbody>
</table>

Viewing Grades in LearningHub
- Click into the course.
- Click on the Grades link in the Settings Box to the left of the main course page.

Letter Grade Assignment

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
</tr>
<tr>
<td>B+</td>
<td>88-89%</td>
</tr>
<tr>
<td>B</td>
<td>83-87%</td>
</tr>
<tr>
<td>B-</td>
<td>80-82%</td>
</tr>
<tr>
<td>C+</td>
<td>78-79%</td>
</tr>
<tr>
<td>C</td>
<td>73-77%</td>
</tr>
<tr>
<td>C-</td>
<td>70-72%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>0-59%</td>
</tr>
</tbody>
</table>
Part 5: Course Policies

Withdrawal and Incomplete Policies
The current withdrawal policy can be found online at https://www.andrews.edu/distance/students/gradplus/withdrawal.html. The incomplete policy is found online at http://www.andrews.edu/weblmsc/moodle/public/incompletes.html.

Maintain Professional Conduct Both in the Classroom and Online
The classroom is a professional environment where academic debate and learning take place. Your instructor will make every effort to make this environment safe for you to share your opinions, ideas, and beliefs. In return, you are expected to respect the opinions, ideas, and beliefs of other students—both in the face-to-face classroom and online communication. Students have the right and privilege to learn in the class, free from harassment and disruption.

Academic Accommodations
Students who require accommodations may request an academic adjustment as follows:
1. Read the Andrews University Disability Accommodation information at https://www.andrews.edu/services/sscenter/disability/
2. Download and fill in the disability form at http://www.andrews.edu/services/sscenter/disability/accommodationsreqform.pdf. Preferably type answers. To save a digital copy, 1) print to file and save or 2) print and scan. Email the completed form and disability documentation (if any) to success@andrews.edu or fax it to (269) 471-8407.
3. Email sdestudents@andrews.edu to inform the School of Distance Education that a disability has been reported to Student Success.

Commitment to Integrity
As a student in this course, and at the university, you are expected to maintain high degrees of professionalism, commitment to active learning, participation in this course, and integrity in your behavior in and out of this online classroom.

Commit to Excellence
You deserve a standing ovation based on your decision to enroll in, and effectively complete this course. Along with your pledge of “commitment to Integrity” you are expected to adhere to a “commitment to excellence.” Andrews University has established high academic standards that will truly enhance your writing and communication skills across the disciplines and in diverse milieu with many discourse communities in the workplace.

Honesty
Using the work of another student or allowing work to be used by another student jeopardizes not only the teacher-student relationship but also the student’s academic standing. Lessons may be discussed with other students, tutors may help to guide a student’s work, and textbooks, encyclopedias and other resource materials may be used for additional assistance, but the actual response must be the student’s own work.

Exams must be completed in the presence of an approved supervisor without the assistance of books, notes, devices or outside help unless otherwise specified in the exam directions. The student should have no access to the exam either before or after it is taken. A student who gives information to another student to be used in a dishonest way is equally guilty of dishonesty.
Any violation of this policy will be taken before the Higher Education Academic and Curriculum Committee for appropriate punitive action.

**Part 6: Resources for Paper and Presentation**

The following resources deal with topics suitable for your paper and presentation. Choose a topic from one source listed below. Your reaction paper and presentation will be based on information and ideas gleaned from the source. If you wish to pursue a topic not covered by any of the sources listed below, please contact the professor and discuss your plans in advance.

**Videos**

1. Galileo’s Battle for the Heavens - Biography of Galileo
2. A Private Universe:
   a. Preconceived notions interfere with learning
   b. The Doomsday Asteroid
   c. Asteroids that could demolish the earth
   d. Show Me God - Modern Cosmology provides evidence for God
4. Science and Religion: An overview (are religion and science at war?)
5. Science and Religion: Let there be light and the big bang
6. Science and Religion: Creation and evolution
7. Beyond the Postmodern Mind: Do materialistic values of science lead to loss of meaning?
8. Faith and Reason: Interviews with scientists for views on science and philosophy
9. Science and the Spirit:
10. Soul:
    a. Part I: Challenges to Big Bang and the creation of life
    b. Part II: Knowledge of the Natural World has failed to answer life’s important questions.
    c. Part III: Science cannot decipher all aspects of the human mind
11. Facts of Faith: experiments that teach about God (Elementary School Level)

**Books**

“Seventh-day Adventists Believe: A Biblical Exposition of the 27 fundamental Doctrines”, General Conference of Seventh-day Adventists, Ministerial Department, 1988. You must interview a local pastor about how flexible (or inflexible) these beliefs are. You may chose to focus on belief #6, Creation.


   Ch. 1: Martian Rocks
   Ch. 7: The Bible and the Big Bang
   Ch. 8: Evidences for Design
Ch. 9: Alternative Explanations for Design
Ch. 11: Is the Gospel Logical?


“Miracles”, Chapter 3 (The Self-Contradiction of the Naturalist)

“Miracles, Chapter 8 (Miracles and the Laws of Nature)


“Rare Earth”, Peter Ward and Donald Brownlee, Chapter 12 (Assessing the Odds), Copernicus Books, 2004.

“A Brief History of Time”, Stephen Hawking, Chapter 8 (The Origin and Fate of the Universe), Bantam, 1988.


**Web Sites**

http://www.reasons.org/articles/design-and-the-anthropic-principle

Hugh Ross, Design and the Anthropic Principle


Anthropic Principle

http://www.leaderu.com/truth/1truth15.html

**People**
Interview a theologian about how modern astronomy informs his faith or interview an astronomer or physicist about the appropriateness of a relationship between faith and science. You may use the phone or email to conduct interviews.

**Articles**


