ADMISSION TO HONORS COURSES

Honors courses are designed, first of all, for Honors College members; however, any TTU student with a GPA of 3.0 or better is eligible to enroll in Honors courses as space permits.

For more information, contact: Honors College, McClellan Hall Room 103, (806) 742-1828; honors@ttu.edu

GRADUATION WITH HONORS DESIGNATIONS

Students must complete 24 hours in Honors courses to graduate from Texas Tech University with the transcript designation “with Honors from the Honors College.” See the Honors College Student Handbook on the web for more details.

A student who wishes to graduate with the transcript designation “with Highest Honors from the Honors College” must complete an Honors Thesis and 30 hours of Honors coursework. Permission from the Honors College is required before beginning the Honors Thesis.

Students entering the Honors College prior to Fall 2017 must maintain a pure grade point average (GPA) of 3.25 to remain in the Honors College and graduate with either of the above Honors designations. Students entering the Honors College in Fall 2017 or later must maintain a TTU GPA of 3.5 to remain in the Honors College and graduate with either of the above Honors designations.

Students intending to graduate with either designation must file an “Intent to Graduate” form with the Honors College about one year prior to the graduation date. Honors College designations are listed on the transcript and the diploma. These are in addition to other distinctions graduates may earn, such as Magna Cum Laude.

Course information, such as days and times, are subject to change. Updates to the course booklet will now be listed on the last page. Please check back daily for course additions and changes.

Core curriculum fulfillment listed in the Honors course booklet reflects the university’s list of core curriculum requirements, effective fall 2014.

https://catalog.ttu.edu/preview_program.php?catoid=9&poid=6612
Students entering TTU prior to fall 2014 should consult the catalog of their entry term for a list of core curriculum options.
Dear Honors Student,

Welcome to the Honors College course offerings booklet for the fall 2020 semester. Believe it or not, it’s time to begin working on your fall 2020 schedule! Honors students can begin registering via Raiderlink on Friday, April 3rd (Honors seniors may register on Thursday, April 2nd).

All Honors students entering the Honors College before spring 2020 are exempt from mandatory advising. Those entering the Honors College in spring 2020 or later may email a PRF to an advisor during the dates for their appropriate hours classification listed below, but will still be required to meet with an advisor on March 27th, 30th, and 31st in order to have their Honors advising hold removed. All Honors students will receive an email from the Honors College notifying them of their advising status and providing details on the advising/permit approval process particular to each. The Honors advising schedule will follow the timetable below:

<table>
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<tr>
<th>Classification</th>
<th>Email Dates</th>
<th>On-Site Dates</th>
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<tbody>
<tr>
<td>Seniors (90+ hours as of January 2020)</td>
<td>Between 10:00 PM on March 2nd and 8:00 AM on March 5th</td>
<td>March 27th, 30th, and 31st</td>
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<tr>
<td>Juniors (60-89 hours as of January 2020)</td>
<td>Between 10:00 PM on March 6th and 8:00 AM on March 10th</td>
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<tr>
<td>Sophomores (30-59 hours as of January 2020)</td>
<td>Between 10:00 PM on March 12th and 8:00 AM on March 16th</td>
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<tr>
<td>Freshmen (0-29 hours as of January 2020)</td>
<td>Between 10:00 PM on March 23rd and 8:00 AM on March 25th</td>
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<tr>
<td>All spring 2020/fall 2020 admits</td>
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PLEASE DO NOT UTILIZE GRADEFIRST TO MAKE YOUR APPOINTMENT. Students required to come in for advising will receive an email from the Honors College providing a link to our online scheduling tool, Genbook, which is used for scheduling appointments. Genbook will be audited daily to ensure that all students’ appointments are made during the appropriate dates for their classification. Unauthorized appointments will be cancelled.

A list of all university classes to be offered in the fall term is available for students in the MyTech tab of Raiderlink (www.raiderlink.ttu.edu). Students should review both this booklet and the Tech course schedule on Raiderlink before the advising appointment and arrive with a completed fall 2020 schedule. The advising session will go quickly and smoothly if students will:

- Come prepared! Students will need to complete a Permit Request Form (currently found on the Honors College website under Advising > Course Information) by reviewing the university’s fall schedule and the Honors course booklet. Students without tentative schedules (including times/days of classes) will be asked to reschedule their advising appointment.
- If you have questions concerning your degree requirements or additional registration holds, schedule an appointment with your primary advisor prior to your visit with the Honors College.
- Arrive on time. Since your appointment will only be scheduled for a short time period, it is imperative that you arrive on time and prepared. If you arrive late for your appointment, you will be asked to reschedule.
- Cancel your appointment beforehand if you are unable to make it.

Remember that registration for fall courses must be completed by you on Raiderlink. Your Honors advisor will not enroll you in your fall courses. If you have any questions, please contact the Honors College at honors@ttu.edu.

-Honors College Advisors
Once a course is full, the course is closed. Students may elect to be placed on a waitlist for closed courses.

**FULL/CLOSED courses are listed in red text**

### FALL 2020 COURSE OFFERINGS

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CRN#</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>ACCT 2300-H01</td>
<td>Financial Accounting</td>
<td>20419</td>
<td>Prof. Q. Lynn</td>
<td>MWF</td>
<td>2:00-2:50 PM</td>
</tr>
</tbody>
</table>
| **Prerequisites:** Minimum 3.0 GPA, COBA and AGBS majors only, and a B- or better in any college-level mathematics course  
Concepts and terminology of accounting and financial reporting for modern business enterprises and the relationships between accounting information and business activities. |

| ACCT 3307-H01 | Income Tax Accounting | 39613    | Prof. K. Bigbee | MWF    | 1:00-1:50 PM |
| **Prerequisite:** B- or better in ACCT 2300  
A study in detail of certain provisions of the Internal Revenue Code combined with elementary tax planning in business and individual transactions. |

| ANSC 3301-H01 | Principles of Nutrition | 35897    | Prof. B. Johnson | MWF    | 10:00-10:50 AM |
| ANSC 3301-H70 | Discussion             | 37477    |                 | W      | 5:00-5:50 PM  |
| **Prerequisite:** B- or better in ANSC 1401; B- or better in CHEM 1305 or CHEM 1307  
Note: CHEM 1305 or 1307 is recommended, but not required.  
Nutritional roles of carbohydrates, proteins, lipids, minerals, vitamins, and water. Digestion, absorption, and use of nutrients and their metabolites.  
**THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.** |

| ANSC 3401-H01 | Reproductive Physiology | 10532    | Prof. S. Prien   | MW     | 6:00-7:20 PM  |
| ANSC 3401-H50 | No-Credit Lab           | 42052    |                 | M      | 12:00-1:50 PM |
| ANSC 3401-H70 | Discussion             | 42053    |                 | T      | 5:00-5:50 PM  |
| **Prerequisites:** B- or better in ANSC 2202 and ANSC 2306 or ANSC 3405  
**Corequisites:** ANSC 3401-H50 and ANSC 3401-H70  
This course will provide students with an opportunity for an in-depth study of the reproductive process as it occurs in farm animals. This course differs from the regular section and will target highly motivated students with a unique integrated intellectual experience. As such, the fundamental aspects of reproductive physiology and management will be presented using a more interactive and personalized approach. Topics covered in the course include male and female reproductive anatomy, endocrine glands, sex determination, cloning, artificial insemination, and embryo transfer. |

| ASTR 1401-H01 | Stellar Astronomy      | 29544    | TBD            | MWF    | 3:00-3:50 PM  |
| ASTR 1401-H51 | No-Credit Lab          | 29545    |                | R      | 8:00-9:50 AM  |
| ASTR 1401-751 | Discussion            | 30004    |                | TBD    |             |
| If you have to take a natural science course (which you do), wouldn't you like to take one that mixes aspects of the entire universe into a single course? Learn things about who we are and why we are here and how we know so much about something so vast. The best part is that this course is designed to allow you to explore astronomy yourself by taking your own data and analyzing it and then incorporating it into things that we discuss. You won't have to take my word for it; you will be able to discover the universe for yourself.  
**THIS COURSE FULFILLS 4 HOURS OF THE CORE CURRICULUM LIFE AND PHYSICAL SCIENCES REQUIREMENT.** |
CHEM 1305-H01  Chemical Basics (CRN# 36024)  TBD  MWF 1:00-1:50 AM

Note: Enrollment in this course is restricted to members of the Honors College.
Corequisite: CHEM 1105 strongly recommended.
A survey of basic chemical concepts, properties, and reactions.

THIS COURSE FULFILLS 3 HOURS OF THE CORE CURRICULUM LIFE AND PHYSICAL SCIENCES REQUIREMENT.

CHEM 1307-H01  Principles of Chemistry I (Freshmen Only) (CRN# 14787)  Prof. D. Casadonte  TR 8:00-9:20 AM
CHEM 1307-H02  Principles of Chemistry I (Freshmen Only) (CRN# 35267)  Prof. D. Casadonte  TR 9:30-10:50 AM
CHEM 1307-H03  Principles of Chemistry I (Freshmen Only) (CRN# 41089)  Prof. D. Casadonte  TR 11:00 AM-12:20 PM
CHEM 1307-H04  Principles of Chemistry I (CRN# 37619)  TBD  TR 12:30-1:50 PM
CHEM 1307-H05  Principles of Chemistry I (CRN# 39869)  TBD  TR 2:00-3:20 PM

Prerequisites: Grade of A- or better in CHEM 1301 or a passing score of at least 60% on the Chemistry Placement Exam or a grade of A+ in CHEM 1101; and at least one year of HS Chemistry; and a score of 600/26 or better on the Math portion of the SAT/ACT.
Corequisite: CHEM 1107 is strongly recommended.
This course focuses on a study of the fundamental concepts of chemistry including nomenclature; chemical reactions; stoichiometry; molecular structure and geometry; bonding concepts and paradigms; thermochemistry; states of matter; the physical characteristics of solids, liquids, and gases; phase transitions; and an introduction to solution properties. This course has a limited enrollment and is taught in a “flipped” format, and as such provides opportunities for direct faculty-student interaction, small group discussion, and hands-on and inquiry-based learning. This course is recommended for students who plan careers in chemistry or in the physical and biological sciences, as well as in medicine or engineering.

THIS COURSE FULFILLS 3 HOURS OF THE CORE CURRICULUM LIFE AND PHYSICAL SCIENCES REQUIREMENT.

CHEM 3305-H01  Organic Chemistry I (CRN# 14791)  TBD  MWF 10:00-10:50 AM

Note: Enrollment in this course is restricted to members of the Honors College.
Prerequisite: B- or better in CHEM 1308.
Corequisite: CHEM 3105 strongly recommended.
Organic chemistry, the chemistry of carbon compounds, underlies almost all the stuff of modern life, including combustion, biochemistry, food, pharmaceuticals, and plastics. The first semester course begins with the language of organic chemistry, the symbols and concepts that we use to describe, understand and predict the structure and bonding of organic molecules. We then discuss some of the fundamental reactions of organic molecules. The emphasis is on understanding simple reactions so they can be applied to more complex systems.

CHEM 3310-H01  Molecular Biochemistry (CRN# 41016)  TBD  TR 12:30-1:50 PM

Prerequisite: B- or better in CHEM 3306.
Molecular descriptions of biological materials and systems. A one-semester course covering molecular approaches to biochemistry and metabolism.

EC 3306-H01  Child and Adolescent Guidance (CRN# 42279)  Prof. M. Ziegner  MWF 1:00-1:50 PM
Cross-listed with HDFS 3306-H01.
Prerequisite: Prerequisite waived for Honors College section.
Development of strategies for promoting self-discipline, creative capacities, and positive relationships with children and adolescents.

ENGL 3388-H01  Film Genres: Star Wars and Media Culture (CRN# 14001)  Prof. A. Whitney  TR 11:00 AM-12:20 PM

Prerequisite: 3 hours of 2000-level English coursework.
This course will offer a survey of methods and issues in media studies using the Star Wars franchise as the central object of study. Students will draw upon over forty years’ worth of Star Wars transmedia texts to learn approaches to media studies including textual analysis, sound studies, adaptation, media archaeology, material culture and ephemera, industrial history, and fan culture. In addition to the Star Wars films, students will study radio plays, comic books, toys and games, actors' star personae, costume and production design, and primary sources such as industrial patents and oral histories.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CRN#</th>
<th>Instructor</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>ENGR 2331-H01</td>
<td>Professional Communication for Engineers</td>
<td>(CRN# 37622)</td>
<td>Prof. S. Millerick</td>
<td>TR 8:00-9:20 AM</td>
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<tr>
<td><strong>Prerequisite:</strong></td>
<td>B- or better in ENGL 1302.</td>
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<td>Rhetorical theory and conventions applied to communication strategies for engineering practice in the global workplace, addressing collaboration, ethical situations, community service, and electronic communication.</td>
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<td><strong>THIS COURSE FULFILLS 3 HOURS OF THE CORE CURRICULUM COMMUNICATION REQUIREMENT.</strong></td>
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<tr>
<td>FIN 3320-H01</td>
<td>Financial Management</td>
<td>(CRN# 33317)</td>
<td>Prof. D. Winters</td>
<td>MW 2:00-3:20 PM</td>
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<tr>
<td><strong>Prerequisite:</strong></td>
<td>B- or better in ACCT 2300, ECO 2302, or ECO 2305 and a minimum overall GPA of 3.0.</td>
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<td><strong>Prerequisite of corequisite:</strong></td>
<td>(B- or better in) ACCT 2301 and MATH 2345.</td>
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<td>Survey course in finance introducing topics in corporate finance investments and financial institutions.</td>
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<td>HDFS 3306-H01</td>
<td>Child and Adolescent Guidance</td>
<td>(CRN# 42188)</td>
<td>Prof. M. Ziegner</td>
<td>MWF 1:00-1:50 PM</td>
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<td><strong>Cross-listed with EC 3306-H01.</strong></td>
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<tr>
<td><strong>Prerequisite:</strong></td>
<td>Prerequisite waived for Honors College section.</td>
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<td></td>
<td>Development of strategies for promoting self-discipline, creative capacities, and positive relationships with children and adolescents.</td>
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<tr>
<td>HIST 1301-H01</td>
<td>Western Civilization II</td>
<td>(CRN# 42021)</td>
<td>Prof. B. Poole</td>
<td>TR 9:30-10:50 AM</td>
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<td><strong>Note:</strong></td>
<td>HIST 1300 is not required before HIST 1301.</td>
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<td>The revolutionary transformations of European civilization in the 17th, 18th, and 19th centuries; world dominion and the world wars; intellectual and cultural developments.</td>
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<td><strong>THIS COURSE FULFILLS 3 HOURS OF THE CORE CURRICULUM LANGUAGE, PHILOSOPHY, AND CULTURE REQUIREMENT.</strong></td>
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<td>HIST 4379-H01</td>
<td>Revolutionary Russia</td>
<td>(CRN# 42025)</td>
<td>Prof. A. Barenberg</td>
<td>TR 9:30-10:50 AM</td>
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<td><strong>Seminar</strong></td>
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<td><strong>Prerequisite:</strong></td>
<td>Junior standing or consent of instructor.</td>
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<td>Examines Russia/USSR during its revolutionary period, ca. 1900-1950. Topics studied include the 1917 revolutions, civil war, NEP, Stalinism, terror, the Gulag and WWII.</td>
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<td><strong>THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.</strong></td>
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<tr>
<td>HONS 3300-H01</td>
<td>Individual Honors Research</td>
<td>(CRN# 14937)</td>
<td>Prof. K. Caswell</td>
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<tr>
<td>HONS 3300-H02</td>
<td>Individual Honors Research (HAL Majors Only)</td>
<td>(CRN# 22103)</td>
<td>Prof. K. Caswell</td>
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<td><strong>Note:</strong></td>
<td>This course is for students interested in completing an Honors Thesis, not for students involved in URS.</td>
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<td>To be admitted to the Honors thesis program, students must be enrolled in the Honors College, must be in the final two semesters of their degree program, and must file an application for approval. Thesis courses are not offered during the summer terms.</td>
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<td>An Honors thesis is a long formal research paper or written creative work that conforms to the journal publishing standards in a chosen field. The Honors thesis program consists of two semester-long research and writing courses, HONS 3300, followed by HONS 4300. Students do not meet in a classroom, but instead work independently, and in concert with a student-selected thesis director, and the HONS 3300/4300 instructor. The thesis director must be a Texas Tech University faculty member. With guidance, students work through a series of steps from the development of an argument to a completed thesis. In these two courses, students master the following skills: note-taking, effective outlining, integrating primary and secondary sources, document formatting, utilizing constructive feedback, argumentative and/or creative writing, and revising. Students who successfully complete an Honors thesis are eligible to graduate from the Honors College with the distinction of Highest Honors.</td>
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<td>Honors students seeking an application contact Cheyenne Belew (<a href="mailto:Cheyenne.belew@ttu.edu">Cheyenne.belew@ttu.edu</a>); HAL/HSH majors contact Chad Cain (<a href="mailto:chad.cain@ttu.edu">chad.cain@ttu.edu</a>). Contact Professor Kurt Caswell (<a href="mailto:kurt.caswell@ttu.edu">kurt.caswell@ttu.edu</a>) with any questions.</td>
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<tr>
<td>For HONS 3300, the deadline to receive a permit, pending an approved application, is August 24th, 2020.</td>
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HONS 3301-H02  |  The Tangled Web of the Modern Middle East: Unraveling Culture, Religion, Politics, and War  (CRN# 14946)  |  Prof. J. Hodes  |  MWF 11:00-11:50 AM

This course will explore the Modern Middle East from the fall of the Ottoman Empire in World War I to The American War in Afghanistan and Iraq as well as the Revolutions which swept across of the region in 2010 and 2012. Through text, film, culture, religion, history, and politics, this course will introduce students to the major themes which are currently shaping the region. Why are Americans in Iraq and Afghanistan? How much oil comes from the Middle East? What is the Arab Israeli conflict? All of these questions and more will be answered through an in-depth exploration of religion, history, culture and politics.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.

HONS 3301-H05  |  Honors Seminar in Humanities: TBD  (CRN# 14968)  |  Prof. B. Giemza  |  TR 11:00 AM-12:20 PM

TBD

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.

HONS 3302-H01  |  Epidemiology of Infectious and Chronic Diseases  (CRN# 37781)  |  Prof. A. Smith  |  TR 9:30-10:50 AM

Note: This course has been approved to count for upper-level MBIO credit for MBIO majors. Students will need to contact their primary advisor to have this updated on their DegreeWorks.

Prerequisite: B- or better in MBIO 3400 or MBIO 3401; or with consent of instructor.

Epidemiology is the study of the distribution and determinants of health-related states or events, including infectious disease, and the application of this study to the control of diseases and other health problems. This course introduces basic principles and methods used in epidemiology and its application to public health issues and practices and will explore various methods that can be utilized to carry out epidemiological investigations, including surveillance and analytical studies.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.

HONS 3302-H02  |  Early Clinical Experience  (CRN# 29877)  |  Prof. L. Johnson  |  MW 1:00-1:50 PM

Note: Application to take this course is mandatory. Enrollment is limited to Honors students only. Eligible students must have junior standing by hours or be graduating within the next year (as shown on the Tech system) with steady progress made toward completion of medical school science requirements. Students must submit to a criminal background check and will need to pass a TB test prior to entry in the class. Applications are due by 11:59 PM on Sunday, March 15th. For an application, click here.

This course block provides the framework for Pre-Med students to learn the fundamental concepts of the various roles and responsibilities of physicians. Learning occurs in several settings including classroom instruction, small group forums, and clinical settings. The students also explore ethical, cultural, psychological, and economic dimensions of clinical care through these various learning settings.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.

HONS 3302-H03  |  Medicine and the Narrative Tradition  (CRN# 40123)  |  Prof. P. Barta  |  TR 11:00 AM-12:20 PM

This course will examine the emergence of medicine from myth in Classical Antiquity and Ancient China. We will assess medicine as much as an art as a science. We will read/watch and discuss Classical, Chinese, Russian, Western European, and American literary and cinematic works that address illness, healing, health provision, doctors as authors, and doctors as patients. The aim of the course is to learn about vitals soft skills in health provision and to understand the importance of these in diagnosing and treating illness and in managing complex and challenging professional and social issues. The learning outcomes of the course also include some of the very same skills: listening, communicating and empathizing with somebody whose social, cultural, ethnic or linguistic background differs significantly from one’s own. Student-led projects will develop personal skills, such as concentration, perseverance, and how to engage with others.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.
HONS 3304-H04  **Icons of Popular Culture: Mystery Science Theater 3000: Textual Poaching, Fandom, the Mash-Up and the Culture of Riffing** (CRN# 35967) Prof. R. Weiner M 5:00-7:50 PM SEMINAR

The 2015 reboot of the television program *Mystery Science Theater 3000 (MST3K)* became the largest crowd-funded video project in history. No small feat for a show that had its last broadcast almost 20 years ago in 1999. *MST3K*, a low-budget comedy program that made fun of and riffed on bad movies, aired on two major cable networks, one public access station, and produced a theatrical film in the span of eleven years (1988-1999). The show developed a fanatical following and is now considered by fans and critics one of the funniest and smartest programs to ever grace the small screen. In today’s transmedia world, the impact of riffing is all around us— from mash-ups on YouTube to fan-created cultures. This section of the “Icons of Popular Culture” seminar will focus on *MST3K* (and its various offshoots like *RiffTrax*), the history of riffing (which pre-dates MST3K), comedy writing, fandom, and taking one form of art and creating something new and unique from it. *Mystery Science Theater 3000: The Return* (2017) and the MST3K *The Gauntlet* (2018) are both a hit series on Netflix and have a 100% fresh rating on Rotten Tomatoes. This class is reading intensive.

**THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.**

HONS 4300-H01  **Individual Honors Research** (CRN# 15026) Prof. K. Caswell
HONS 4300-H02  **Individual Honors Research (HAL Majors Only)** (CRN# 22333) Prof. K. Caswell

*Note: This course is for students interested in completing an Honors Thesis, not for students involved in URS.*

**Prerequisite:** Completion of HONS 3300-H01 or HONS 3300-H02.

An Honors thesis is a long formal research paper or written creative work that conforms to the journal publishing standards in a chosen field. The Honors thesis program consists of two semester-long research and writing courses, HONS 3300, followed by HONS 4300. Students do not meet in a classroom, but instead work independently, and in concert with a student-selected thesis director, and the HONS 3300/4300 instructor. The thesis director must be a Texas Tech University faculty member. With guidance, students work through a series of steps from the development of an argument to a completed thesis. In these two courses, students master the following skills: note-taking, effective outlining, integrating primary and secondary sources, document formatting, utilizing constructive feedback, argumentative and/or creative writing, and revising. Students who successfully complete an Honors thesis are eligible to graduate from the Honors College with the distinction of Highest Honors.

Honors students seeking an application contact Cheyenne Belew ([Cheyenne.belew@ttu.edu](mailto:Cheyenne.belew@ttu.edu)); HAL/HSH majors contact Chad Cain ([chad.cain@ttu.edu](mailto:chad.cain@ttu.edu)). Contact Professor Kurt Caswell ([kurt.caswell@ttu.edu](mailto:kurt.caswell@ttu.edu)) with any questions.

HONS 4302-H02  **The Grand Challenge: Past, Present, and Future** (CRN# 37526) Prof. M. San Francisco TR 4:00-5:20 PM SUMMIT

There is no required textbook for this course. Readings will be assigned throughout the semester from books and research literature. Topics that will be covered include:

**Engineering:** AI, interplanetary transport, robotics, etc. (*Zen and the Art of Motorcycle Maintenance*)

**Physics and Math:** Gravitational force harvesting, quantum physics and teleportation, Higgs-Boson, modeling turbulence, climate, etc. (*Astrophysics for People*)

**Art and Archeology:** Dating materials of recent antiquity, understanding historic human behavior through art, soil stratigraphy, and evolutionary concepts (*The Sixth Extinction*)

**Biology and Health:** Issues with global health, environmental sustainability and population growth, erosion, how man destroyed wildlife (and then himself), zoonoses in a globally connected people, food and housing for 9 billion people, disease spread through transport, Brain project, the cancer moonshot, CRISPER and eugenics, etc.

Upon completion of this course, a fully-engaged student will be able to:

- Discuss important theories and drivers of “change” on our planet and our impact at all levels
- Engage in an integrated discussion about factors that influence how our knowledge of science, humanities, and art plays out in different societies, cultures, and political structures
- Write about and comprehend scientific issues
- Demonstrate a broad understanding of inter-disciplinarity and trans-disciplinarity, and answer “How can we work towards being prepared for the unknowable future?”

**THIS COURSE FULFILLS 3 HOURS OF THE HONORS SUMMIT REQUIREMENT.**
HONS 4302-H04  The Civilization of India  (CRN# 38829)  Prof. J. Hodes  MWF 9:00-9:50 AM

On August 15, 1947 India became an independent Republic and threw off the yoke of colonial rule. Since then it has reemerged as one of the greatest powers of the world. It has one of the fastest growing economies, one of the largest middle class populations globally, is the world’s largest democracy and is a center of science and learning. While Harvard University was once the most difficult school in the world to get into, today it is the Indian institute of technology. This course will provide an overview of the development of Indian culture, religion and history. It will give background to Hinduism, Buddhism and Sikhism as well as clearly illustrate how Islam would come to India and become one of her most important religions. This course will also explore the scientific advancements and achievements of India exploring how the idea of representing any numerical equation using just nine symbols (123456789) came from the subcontinent as well as the concept of both zero and the decimal point. The course will explore the social movements that have emerged such as the “Quit India” movement led by Mahatma Gandhi and will explore the modern political realities of a nation that is emerging as a world leader while still knowing what it means to be part of an ancient past.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SUMMIT REQUIREMENT.

HONS 4302-H05  Hamlet, Unlimited  (CRN# 38830)  Prof. K. Caswell  TR 2:00-3:20 PM

You can never come to the end of Hamlet, as the play and the character are too vast, nearly unlimited. You can never come to the end of Hamlet because, as Harold Bloom writes of Shakespeare’s body of work, it is at the “outward limit of human achievement.” You can never come to the end of Hamlet because Hamlet never comes to the end of himself. He is ceaselessly searching, questioning, exploring. He is always talking to himself, and always listening to what he has to say, trying to understand. Who am I, Hamlet asks? What do I mean in the world? And where am I going? These are the fundamental questions of human life, as it turns out, the questions we all ask. Along with one other: what does it mean to die? And Hamlet asks that too: “To be, or not to be, that is the question.” Arguably Hamlet is the second most discussed character in all of western literature (and so too is his play); the first is likely Jesus Christ. As such, Hamlet deserves special attention, and warrants a class, and a close reading, all his own.

We’ll supplement our reading of Hamlet with the work of Freud and Jung, biblical stories, biology, evolutionary psychology, and quantum theory. We will address the universal themes of ambition and human endurance, fatal desire, sublimation, family heritages and dynamics, as well as the wish to live forever. We may work with films of the play, and we will read aloud in class, often. This class is reading and writing intensive, but any Honors student in any major can handle it. Shakespeare wrote his plays for everyone.

THIS COURSE FULFILLS 3 HOURS OF THE HONORS SUMMIT REQUIREMENT.

MATH 1451-H01  Calculus I with Applications  (CRN# 29411)  Prof. R. Siwatu  MWF 9:00-9:50 AM

MATH 1451-H02  Calculus II with Applications  (CRN# 29412)  Prof. P. Schovanec  TR 9:30-10:50 AM

**Prerequisites:** B- or better in MATH 1350 or MATH 1550; or B- or better in MATH 1320 and a code of 5 on the MPE; or B- or better in MATH 1321; or code of 7 on the MPE; or a score of at least 660 on the SATM; or a score of at least 29 on the ACTM; or a score of at least 3 on the AP AB Calculus and a code of 5 on the MPE.

Differentiation of algebraic and transcendental functions, applications of the derivative, differentials, indefinite integrals, definite integrals. Honors Calculus expands on the regular calculus course by looking in depth into why the concepts work, rather than merely using the concepts. In addition, various additional applications and topics that should be interesting to students will be covered. Honors calculus does not require more work than regular calculus, but rather more interesting approaches to the topics.

THIS COURSE FULFILLS 4 HOURS OF THE CORE CURRICULUM MATHEMATICS REQUIREMENT.

MATH 1452-H01  Calculus II with Applications  (CRN# 29573)  Prof. P. Schovanec  MW 10:00-11:50 AM

**Prerequisite:** B- or better in MATH 1451.

Methods of integration, parametric equations, polar coordinates, hyperbolic functions, infinite series. Applications and problem-solving are strongly emphasized. Honors Calculus expands on the regular calculus course by looking in depth into why the concepts work, rather than merely using the concepts. In addition, various additional applications and topics that should be interesting to students will be covered. Honors calculus does not require more work than regular calculus, but rather more interesting approaches to the topics.

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### MATH 2360 - H01 Linear Algebra
**CRN#: 15055**
**Prof. G. Bornia**
**Time: TR 9:30-10:50 AM**

**Prerequisite:** B- or better in MATH 1452.

This course will involve a balance of theory, application and computation. The many uses of linear algebra will be emphasized in conjunction with the philosophy that serious applications of linear algebra require some computing capability. To this end the course will involve significant use of MATLAB. This course will be enriched for Honors students with additional readings, projects, and/or expositions.

### MATH 2450 - H01 Calculus III with Applications
**CRN#: 38223**
**Prof. K. Yamazaki**
**Time: MWF 12:00-12:50 PM, F 11:00-11:50 AM**

**MATH 2450 - H02 Calculus III with Applications**
**CRN#: 29409**
**Prof. E. Aulisa**
**Time: TR 12:30-1:50 PM, T 11:00-11:50 AM**

**Prerequisite:** B- or better in MATH 1452.

Partial differentiation; functions of several variables; multiple integrals, line integrals, surface integrals, Stokes Theorem. Honors Calculus expands on the regular calculus course by looking in depth into why the concepts work, rather than merely using the concepts. In addition, various additional applications and topics that should be interesting to students will be covered. Honors calculus does not require more work than regular calculus, but rather more interesting approaches to the topics.

### MATH 3342 - H01 Mathematical Statistics for Engineers and Scientists
**CRN#: 29435**
**Prof. F. Zhang**
**Time: MWF 3:00-3:50 PM**

**Note:** MATH 3342 and 4342 cannot both be counted toward a mathematics major or minor.

**Prerequisite:** B- or better in MATH 2450.

This course is designed to cover topics from mathematical statistics that are of interest to students from engineering and/or the sciences. Topics will include descriptive statistics, elementary probability, random variables and their distributions, mean, variance, parameter estimation, hypothesis testing, regression, and analysis of variance. In addition, students will get hands-on experience in the process of experimentation, data collection, and analysis via a group project where students will propose an experiment, get approval, design the experiment and data collection methodology/protocols, run/conduct the experiment and gather data, then analyze the data and draw conclusions. This will all be presented in a written report as well as an oral presentation before their peers.

### MATH 3350 - H01 Higher Mathematics for Engineers and Scientists I
**CRN#: 21206**
**Prof. L. Juan**
**Time: TR 2:00-3:20 PM**

**Note:** MATH 3350 and 3354 cannot both be counted toward a mathematics major or minor. Mathematics majors should take MATH 3354.

**Prerequisite:** B- or better in MATH 1452.

Ordinary differential equations, Laplace transforms, and other selected topics. This course will be enriched for Honors students with additional readings, projects, and/or expositions.

### MBIO 3401 - H01 Principles of Microbiology
**CRN#: 36025**
**Prof. A. Smith**
**Time: MWF 9:00-9:50 AM**

**MBIO 3401- H51 No-Credit Lab**
**CRN#: 36026**
**Time: TR 2:00-3:20 PM**

**Note:** Enrollment in this course is restricted to members of the Honors College.

**Prerequisite:** B- or better in BIOL 1402; or B- or better in BIOL 1403 and BIOL 1404.

**Prerequisite or Corequisite:** CHEM 3305 (B- or better required in CHEM 3305 if not taken simultaneously with MBIO 3401-H01.)

This course will provide an overview of the history and the many components that comprise the field of microbiology. Topics discussed will include: bacteriology, virology, parasitology, mycology, public health, and clinical and industrial microbiology. Students will be encouraged to participate in and lead discussions regarding current events involving microbiology and its applications to everyday life. Students will also be introduced to microbiological research topics and experimental design using various microbiological and molecular techniques.
Strategic Management (CRN# 15064) Prof. C. Duran W 2:00-4:50 PM

Prerequisites: Business students only in their final semester; B- or better in MGT 3370.

Strategic Management is the capstone, integrative course for graduating business administration students. This is an exciting, challenging course that focuses on how firms formulate, implement, and evaluate strategies. Students use all the knowledge and concepts acquired from prior business courses, integrate them with new strategic-management techniques, and use them to chart the future direction of different organizations. The major responsibility of students in this course is to make objective strategic decisions and to justify them through oral presentations and written case studies. This course is taught using active learning and experiential techniques and is primarily discussion-based, but also has written components. Critical thinking skills are required for the experiential exercises and case analyses and will be enhanced during this course. This honors course periodically contains a service learning experience and case. Service learning is an active learning technique that combines application of course concepts, interaction with a community partner, and reflective components. The students will have the chance to apply the strategic management concepts learned in this course in a real world setting.

Music in Western Civilization (CRN# 41286) Prof. E. Fried TR 12:30-1:50 PM

Introductory course for non-music majors in the history of music and its role in western civilization from the Middle Ages through the 20th century and beyond.

Music in Western Civilization fulfills 3 hours of the core curriculum creative arts requirement.

Creating the Critical Listener (CRN# 38146) Prof. H. Beltz MWF 10:00-10:50 AM

Drawing on western classical, folk, popular, non-western, and U.S. and North American music traditions, Creating the Critical Listener seeks to develop a set of analytical and contemplative tools that will enable us not only to listen, read, speak, think, and write analytically and accurately about music, but also to develop awareness and sensitivity to the comparative ways in which culture predisposes us to listen to, understand, use, and participate in music. This course will be of particular interest to music performers, students with a musical background, and non-musicians with a strong commitment to the enhancement and development of their musical and cultural literacy.

Creating the Critical Listener fulfills 3 hours of the core curriculum creative arts or multicultural requirement.

Introduction to Personal Finance (CRN# 35772) Prof. C. Browning TR 11:00 AM-12:20 PM

Seminar

Introduction to personal finance, including goal setting, cash management, credit, insurance, taxes, housing, investment alternatives, and retirement plans. To better understand how individuals and families make financial decisions to meet their goals, reading assignments and discussion will focus on topics that are both relevant and timely. Class time will be spent collaboratively learning about the financial marketplace and behavioral tendencies, which form the environment in which people make financial decisions. Current issues such as financial literacy, time preferences, investment in human capital, behavioral finance, and generational differences will be explored. Discussion will arise from the readings assigned that focus on current issues, often found in popular press such as the Wall Street Journal, USA Today, and Kiplinger’s Magazine. It will also come from interesting and sometimes controversial new research related to how and why people think about money as they do. We all know that our financial decisions are not always rational, as assumed in economic theory. However, behavior research from economic, psychological, and socio-cultural perspectives can inform us regarding financial decision making.

Introduction to Personal Finance fulfills 3 hours of the honors seminar requirement.

Principles of Physics I (CRN# 29511) TBD TR 9:30-10:50 AM

No-Credit Lab (CRN# 18087) R 2:00-3:50 PM

Prerequisite: B- or better in MATH 1451.
Corequisite: PHYS 1408-H51 Lab and PHYS 1408-751 Recitation.

Calculus-based introductory physics course. Mechanics, kinematics, energy, momentum, gravitation, waves, and thermodynamics. The Honors section differs from the regular sections in its small class size and increased opportunities for discussion.

Principles of Physics I fulfills 4 hours of the core curriculum life and physical sciences requirement.
PHYS 2401-H01  
**Principles of Physics II**  
(CRN# 22775)  
TBD  
MWF 11:00-11:50 AM

PHYS 2401-H51  
**No-Credit Lab**  
(CRN# 34257)  
R 6:00-7:50 PM

**Prerequisite:** B- or better in PHYS 1408 and MATH 1452.

**Co-requisite:** PHYS 2401-H51 and PHYS 2401-H71 Recitation

Calculus-based introductory physics. Electric and magnetic fields, electromagnetic waves, and optics. The Honors section differs from the regular sections in its small class size and increased opportunities for discussion.

**THIS COURSE FULFILLS 4 HOURS OF THE CORE CURRICULUM LIFE AND PHYSICAL SCIENCES REQUIREMENT.**

PSY 4305-H01  
**Abnormal Psychology**  
(CRN# 41045)  
SEMINAR  
Prof. S. Garos  
TR 2:00-3:20 PM

**Prerequisite:** B- or better in PSY 1300.

Personality deviations and maladjustments; emphasis on clinical descriptions of abnormal behavior, etiological factors, manifestations, interpretations, and treatments.

**THIS COURSE FULFILLS 3 HOURS OF THE HONORS SEMINAR REQUIREMENT.**
### FALL 2020 HONORS SEMINARS

FULL/CLOSED courses are listed in red text

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<td>Principles of Nutrition</td>
<td>Prof. B. Johnson</td>
<td>MWF 10:00-10:50 AM</td>
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<td>ENGL 3388-H01</td>
<td>Star Wars and Media Culture</td>
<td>Prof. A. Whitney</td>
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<td>HIST 4379-H01</td>
<td>Revolutionary Russia</td>
<td>Prof. A. Barenberg</td>
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<td>Prof. J. Hodes</td>
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<td>HONS 3301-H05</td>
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<td>Prof. B. Giemza</td>
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<td>HONS 3302-H01</td>
<td>Epidemiology of Infectious and Chronic Diseases</td>
<td>Prof. A. Smith</td>
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<td>HONS 3302-H02</td>
<td>Early Clinical Experience</td>
<td>Prof. L. Johnson</td>
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<td>HONS 3302-H03</td>
<td>Medicine and the Narrative Tradition</td>
<td>Prof. P. Barta</td>
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<td>HONS 3304-H04</td>
<td>Mystery Science Theater 3000: The Culture of Riffing</td>
<td>Prof. R. Weiner</td>
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<td>PFP 3301-H01</td>
<td>Introduction to Personal Finance</td>
<td>Prof. C. Browning</td>
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<td>PSY 4305-H01</td>
<td>Abnormal Psychology</td>
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FALL 2020 COURSE UPDATES

- Course updates will now be listed on this page. 02/27/2020
- No updates made. 03/04/2020