OSU Honors College – Courses with Add-ons for Spring 2022 10/28/2021 Draft 2

This is a preliminary draft courses will change please check back frequently for updates

Note: Note there are some courses with missing information – these are still being processed and the data will be updated as soon as possible

Parent Class				Add-on Class						
Parent Class	**CRN**	**Honors Area**	**Title**	**Add-on Class**	**CRN**	**Title**	**Instructor**	**Time**	**Class Type**	**Description**
AGEC 1113	ANY	Social Sciences	Introduction to Agricultural Economics (S)	AGEC 2990	23198	Deep Issues of Agricultural Economics: Honors	Elizabeth Norwood	R1500-1550	In Person	Deeper Analysis of AGEC Issues: Honors - Discussion of selected agricultural and rural issues related to agricultural family finances, agribusiness planning, consumer behavior, agribusiness start-ups, current agricultural news topics, and history of economic thought.
ANSI 2233	ANY	STEM	The Meat We Eat	ANSI 4900	23826	Retail and Food Service Meat Value: Honors	Gretchen Mafi	T1530-1620	In Person	Retail / Food Service Meat Value: Honors - Students will evaluate meat cuts of different value offered in grocery stores and restaurants. Quality and yield traits will be calculated and value determined. Products will range from high quality USDA Prime Beef to low value chicken/pork hot dogs. Students will gain an understanding of meat processing and how meat is valued because of different ingredients, fat levels, raw product sources, and cooking methods. Product prices, cooking methods and cooking loss, edible portions percentages, and values will be determined of all products. Students will summarize findings and at conclusion of course better understand retail and food service meat prices and values depending on initial product sources.

ANSI 2253	ANY	STEM	Meat Animal and Carcass Evaluation	ANSI 4900	23826	Retail and Food Service Meat Value: Honors	Gretchen Mafi	T1530-1620	In Person	Retail / Food Service Meat Value: Honors - Students will evaluate meat cuts of different value offered in grocery stores and restaurants. Quality and yield traits will be calculated and value determined. Products will range from high quality USDA Prime Beef to low value chicken/pork hot dogs. Students will gain an understanding of meat processing and how meat is valued because of different ingredients, fat levels, raw product sources, and cooking methods. Product prices, cooking methods and cooking loss, edible portions percentages, and values will be determined of all products. Students will summarize findings and at conclusion of course better understand retail and food service meat prices and values depending on initial product sources.
ANSI 3423	ANY	STEM	Animal Genetics	ANSI 4900	25377	You and Your Genome: Honors	Darren Hagen	F1330-1420	In Person	Students enrolled in this class will analyze either their own or an instructor-provided DNA sample for ancestry composition, countries of ancestry, maternal and paternal features and Neanderthal/Denisovan features etc. Students would analyze a provided random DNA profile for disease risks and traits. Students are welcome to analyze their own profiles on the own and the instructor would help them. Students would also conduct a DNA fingerprint analysis of their own DNA from start to finish in the DeSilva laboratory as part of the course. DNA profiles would be generated by the company 23 and me. Students would incur a cost of $99.00 if they want their own DNA profile generated, no cost if

										they want to analyze a random sample. Additional data analysis costs of about $20 is anticipated.
ANSI 3444	ANY	STEM	Animal Reproduction	ANSI 4900	24302	The Role of Assisted Reproductive Technologies (ART) in Animal Agriculture: Honors	Daniel Stein	F1230-1320	In Person	Various Assisted Reproductive Technologies have been developed to obtain a large number of offspring from genetically superior animals or obtain offspring from infertile animals to increase herd quality in a shorter period of time than traditional breeding methods. These technologies include artificial insemination, embryo transfer, embryo splitting, cryopreservation/vitrification (freezing) of embryos, oocytes, and semen, in vitro fertilization (IVF), intracytoplasmic sperm injection (ICSI), sexed semen, determination of the sex of embryos, and somatic cell nuclear transfer (cloning) and the ability to engineer transgenic animals. The creation of transgenic livestock is one of the most groundbreaking, yet controversial technologies emerging in agriculture today. The curretnly available and emerging Assisted Reproductive Technologies will offer opportunities for improvements in genetic selection and will be crucial in meeting the global challenges facing animal agriculture created by the anticipated increase in the world population by 2050 requiring an estimated 50% increase in food production. Advocates of some of these Assisted Reproductive Technologies will likely face opposition by the general public who lack understanding and acceptance of these reproductive

										tools for increased animal production and performance. This Honors add-on section will explore the science behind, and the different perspectives of the available and emerging Assisted Reproductive Technologies in animal agriculture.
ANSI 3543	Any	STEM	Principles of Animal Nutrition	ANSI 4900	20030	Principles of Nutrition: (Hon)	Scott Carter	F1530-1620	In Person	Honors Add-on to Principles of Animal Nutrition
ARCH 2283	27970	Humanities	History and Theory of Architecture II (H)	ARCH 2890	28070	Honors for Topics in Architecture	Michael Rabens	T1500-1615	In Person	Add-on for ARCH 2283 History and Theory of Architecture II (H)
BIOL 1114	ANY	STEM	Introduction to Biology	BIOL 2890	24579	Using Nutritional Ecology to Link Physiology, Behavior, & Ecology: Honors	Shawn Wilder	W0930-1020	In Person	The goal of this course is to provide an overview of the topics studied in nutritional ecology and their relevance to different fields of biology The field of nutritional ecology was developed to aid in understanding the complex interactions between macronutrients in animal diets and their consequences for health and fitness. This work integrates several fields of biology including: physiology (What are the biochemical pathways through which nutrients affect animals?), behavior (How do animals choose among foods to regulate their diet?), and ecology (What are the consequences of diet for populations, communities and ecosystems?).
BIOL 1114	ANY	STEM	Introductory Biology	BIOL 2890	28771	Using DNA Barcoding to Characterize Zooplankton Communities: Honors	Guinevere Wogan	R1030-1220	In Person	DNA barcoding has emerged as a powerful approach for determining which species are present in a specific environment or sample. DNA Barcoding uses very short genetic sequences from a standard part of the genome to identify organisms (even whole communities) from tiny DNA samples instead of requiring whole

										organisms and using more variable morphological features like shape, size and color. Students will use recently published DNA barcodes for freshwater zooplankton to determine the species of freshwater zooplankton present in water samples from a new research project conducted by OSU faculty. Students will obtain hands-on experience with PCR amplification of DNA, DNA sequencing technology, and analysis of DNA barcoding information.
BIOL 1604	ANY	STEM	Animal Biology	BIOL 2890	28771	Using DNA Barcoding to Characterize Zooplankton Communities: Honors	Guinevere Wogan	R1030-1220	In Person	DNA barcoding has emerged as a powerful approach for determining which species are present in a specific environment or sample. DNA Barcoding uses very short genetic sequences from a standard part of the genome to identify organisms (even whole communities) from tiny DNA samples instead of requiring whole organisms and using more variable morphological features like shape, size and color. Students will use recently published DNA barcodes for freshwater zooplankton to determine the species of freshwater zooplankton present in water samples from a new research project conducted by OSU faculty. Students will obtain hands-on experience with PCR amplification of DNA, DNA sequencing technology, and analysis of DNA barcoding information.

BIOL 3023	ANY	STEM	General Genetics	BIOL 3890	28772	Using DNA Barcoding to Characterize Zooplankton Communities: Honors	Guinevere Wogan	R1030-1220	In Person	DNA barcoding has emerged as a powerful approach for determining which species are present in a specific environment or sample. DNA Barcoding uses very short genetic sequences from a standard part of the genome to identify organisms (even whole communities) from tiny DNA samples instead of requiring whole organisms and using more variable morphological features like shape, size and color. Students will use recently published DNA barcodes for freshwater zooplankton to determine the species of freshwater zooplankton present in water samples from a new research project conducted by OSU faculty. Students will obtain hands-on experience with PCR amplification of DNA, DNA sequencing technology, and analysis of DNA barcoding information.
BIOL 3204	ANY	STEM	Physiology	BIOL 3890	24535	Physiology: Honors	Will Wiggins	M1630-1720	In Person	Controversies in Physiology - We will use a seminar format to explore areas of controversy within physiology and physiology-related sciences. Selected topics will be in-depth explorations of material that is (usually) briefly touched upon in class, giving you the opportunity to advance your understanding of physiology beyond what we have time to consider in the main course. As the seminar title indicates, our topics will be those for which there is some controversy, e.g., because the science is emerging or very complex, because ethical questions arise as a result of the science, and/or because segments of society have difficulty accepting

										the science. Course meetings will be a combination of professor-led and student-led discussions over topics for which the materials have been given to everyone for review ahead of time in order to come to the class prepared.
BIOL 3214	ANY	STEM	Human Anatomy	BIOL 3890	24554	Evolutionary Medicine and the Human Body: Honors	Mary Towner	M1230-1320	In Person	Evolutionary Medicine and the Human Body is an Add-on for Human Anatomy BIOL 3214
CHEM 1314	ANY	STEM	Chemistry I (LN)	CHEM 2890	31601	The Chemistry in Forensic Chemistry: Honors	Barry Lavine	W1630-1720		Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1314	ANY	STEM	Chemistry I (LN)	CHEM 2890	31602	Everyday Chemistry	Gabriel Cook	W1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1314	ANY	STEM	Chemistry I (LN)	CHEM 2890	31603	Story of Elements with Fun Chemical Experiments	Smita Mohanty	T1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1314	ANY	STEM	Chemistry I (LN)	CHEM 2890	31604	The Story of Chemistry: From the Periodic Table to Nanotechnology	Reza Latifi	W1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1314	ANY	STEM	Chemistry I (LN)	CHEM 2890	31607	Effective Approaches for Deconstructing Scientific Literature and Conceptualizing Scientific Research	Jacinta Mutambuki	M1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1515		STEM	Chemistry II (LN)	CHEM 2890	31601	The Chemistry in Forensic Chemistry: Honors	Barry Lavine	W1630-1720		Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1515	ANY	STEM	Chemistry II (LN)	CHEM 2890	31602	Everyday Chemistry	Gabriel Cook	W1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)

CHEM 1515	ANY	STEM	Chemistry II (LN)	CHEM 2890	31604	The Story of Chemistry: From the Periodic Table to Nanotechnology	Reza Latifi	W1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1515	ANY	STEM	Chemistry II (LN)	CHEM 2890	31607	Effective Approaches for Deconstructing Scientific Literature and Conceptualizing Scientific Research	Jacinta Mutambuki	M1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 1525	ANY	STEM	Chemistry II (LN)	CHEM 2890	31603	Story of Elements with Fun Chemical Experiments	Smita Mohanty	T1630-1720	In Person	Honors Add-on for Chemistry I (LN) (CHEM 1314) or Chemistry II (LN) (CHEM 1515)
CHEM 3053	ANY	STEM	Organic Chemistry I	CHEM 3890	31605	Chemistry of the Main Group Elements	Charles Weinert	M1630-1720	In Person	Add-on for Organic Chemistry I (CHEM 3053) or Organic Chemistry II (CHEM 3153)
CHEM 3053	ANY	STEM	Organic Chemistry I	CHEM 3890	31606	Contemporary Issues in Chemistry and Biochemistry	Allen Apblett	T1630-1720	In Person	Add-on for Organic Chemistry I (CHEM 3053) or Organic Chemistry II (CHEM 3153)
CHEM 3153	ANY	STEM	Organic Chemistry II	CHEM 3890	31605	Chemistry of the Main Group Elements	Charles Weinert	M1630-1720	In Person	Add-on for Organic Chemistry I (CHEM 3053) or Organic Chemistry II (CHEM 3153)
CHEM 3153	ANY	STEM	Organic Chemistry II	CHEM 3890	31606	Contemporary Issues in Chemistry and Biochemistry	Allen Apblett	T1630-1720	In Person	Add-on for Organic Chemistry I (CHEM 3053) or Organic Chemistry II (CHEM 3153)
CS 2133	ANY	STEM	Computer Science II	HONR 2890	31468	Programming Intelligent Robots: Honors	Cheistopher Crick	W1630-1720	In Person	Programming Intelligent Robots - Students in this course will learn to develop applications for autonomous robots, from simple reactive architectures to multirobot teams that engage in sophisticated planning and coordination. Students will be introduced to problems in distributed systems, artificial intelligence and computer vision. Prior programming experience at the level of CS I is required. -

										Crick - CO-REQUISITE NOTE: Must be an honors student enrolled in Computer Science II (CS 2133) or C/C++ (CS 2433) C/C++ course or any other mid-level CS class for the Spring 2022 semester.]
CS 2443	ANY	STEM	C/C++ Programming	HONR 2890	31468	Programming Intelligent Robots: Honors	Cheistopher Crick	W1630-1720	In Person	Programming Intelligent Robots - Students in this course will learn to develop applications for autonomous robots, from simple reactive architectures to multirobot teams that engage in sophisticated planning and coordination. Students will be introduced to problems in distributed systems, artificial intelligence and computer vision. Prior programming experience at the level of CS I is required. - Crick - CO-REQUISITE NOTE: Must be an honors student enrolled in Computer Science II (CS 2133) or C/C++ (CS 2433) C/C++ course or any other mid-level CS class for the Spring 2022 semester.]
CS 4173	ANY	STEM	Video Game Development	HONR 2890	28766	Honors Video Game Development	Douglas Heisterkamp	-	Other	Add-on For Video Game Development CS 4173
CS Mid Level	ANY	STEM	Any other mid-level CS class for the Spring 2022 semester	HONR 2890	31468	Programming Intelligent Robots: Honors	Cheistopher Crick	W1630-1720	In Person	Programming Intelligent Robots - Students in this course will learn to develop applications for autonomous robots, from simple reactive architectures to multirobot teams that engage in sophisticated planning and coordination. Students will be introduced to problems in distributed systems, artificial intelligence and computer vision. Prior programming experience at the level of CS I is required. - Crick - CO-REQUISITE NOTE:

										Must be an honors student enrolled in Computer Science II (CS 2133) or C/C++ (CS 2433) C/C++ course or any other mid-level CS class for the Spring 2022 semester.]
EEE 2023	ANY	Social Sciences	Introduction to Entrepreneurship	EEE 1020	30832	Introduction to Entrepreneurship Supplemental: Honors	Jonathan Butler	W1330-1420	In Person	This honors-level supplemental course is designed to complement Introduction to Entrepreneurship with weekly readings and discussions about real-life entrepreneurs throughout history. Students will read and learn about entrepreneurs including Benjamin Franklin, P.T. Barnum, Madam C.J. Walker, Coco Chanel, Enzo Ferrari, Arianna Huffington, Jay-Z, and others. As part of the course, students will take turns teaching their fellow classmates about specific entrepreneurs and leading discussions about how each entrepreneur demonstrated concepts covered in EEE 2023. This is a discussion-based honors course add-on and students will be graded on their presentations, leadership, and in-class participation.
ENGL AP, IB, Concurent	ANY	Humanities	AP, IB or other Credit for English 1113 and 1213	HONR 2890	28882	Stuff OSU Should Know - A Students' Podcast of OSU History and Culture: Honors	Seth Wood	W1330-1420	In Person	In this course students will contribute to the design, production, and distribution of a podcast that offers a student' perspective on the past, present, and future of Oklahoma State University: Stuff OSU Should Know. In past iterations of this course research topics have ranged from historical inquiries into Oklahoma A&M / OSU during times of war and the economic foundations of the University in the Land Grant System to more topical matters

										like campus construction, Greek Life at OSU, Homecoming, and social justice campaigns on campus. Ultimately, students will choose their own desired topics of research and podcasting work based on in-class group brainstorming sessions. Students will be required to follow multiple podcasts and compose one brief review of a professionally produced podcast in the first half of the semester. In the second half of the semester each student will propose their own contribution to Stuff OSU Should Know, which could take the form of composing and reading scripts, audio editing, visual design, marketing, and other sorts of labor that don't involve listening to your own recorded voice. You may elect to contribute to the podcast by creating transcripts and other visual materials to make the podcast accessible to a wider audience. Whatever the topical material of the podcasts themselves, the creation of them will provide students with a novel opportunity to refine their abilities to perform scholarly research, to conduct interviews, to articulate scripted and improvised discourse, market materials online and in physical spaces through visual media, and to converse and collaborate productively with their peers.
ENTO 2003	ANY	STEM	Insects & Society	ENTO 4400	20973	Honors Insects & Society	William Hoback	R1500-1550	In Person	Insects and Society examines the role insects have played in human lives historically and in the present day. Insects contribute more than $50 billion dollars to the U.S. economy and they kill more than

										one million people worldwide every year. For the fall Honors option, we will read and discuss Locust by Jeff Lockwood. The Rocky Mountain migratory locust was the most abundant animal on the planet and caused great hardships until the early 1900s as the western United States was settled. Today, it is extinct. This book examines the impact of the locust on the American west and reasons for its unintended extinction. Students will investigate the roles of biodiversity, ecology, and human disturbance in shaping our world in the past, present, in order to consider the future.
GEOL 1114	ANY	STEM	Physical Geology (LN)	GEOL 2890	25919	Earth Resources: Honors	Tingying Xu	T1500-1550	In Person	A large amount of the various resources used by human society have their origin in geologic events and processes. This course will aim to provide a more in-depth introduction to key resources alongside GEOL 1114. The resources to be covered will include energy, minerals, rocks and those necessary for life. Specific resources that may be covered include groundwater, surface water, soil, building materials, metals - precious, base and technology specific, renewable energy and fossil fuels. Currently, the relative importance of different resources is changing, and understanding their origin is important to investigating these changes. Examples include the decline in coal production related to an increase in gas and renewable energy resources, as well the changing need for different metals to support the

										development of technologies like smart phones, touch screens, solar panels, electric cars and large capacity batteries.
GEOL ANY	ANY	STEM	ANY Geology Course	GEOL 3890	30363	The Power of Water: Sculpting the Earth: Honors	Mary Hileman	M1530-1620	In Person	Topics covered in this course include exploration and discussion of four areas in geology related to the action of water: Rivers: Erosion by water and use of water for human activity. Caves: Erosion of underground spaces - crystals underground, cave use by early cultures. Geysers: Action of water heated within the earth - hot springs, geysers, power generation, Glaciers: Action of frozen water - sculpting of the Earth, melting glaciers and rise of sea-level. Although there is no textbook, reading of science articles (posted in Canvas) will be used as basis for discussions. Movies and other online information also will be used in this course.
HIST 1103	ANY	Humanities	Survey of American History	HIST 3890	30000	History of Travel: Americans & Europeans Overseas: Honors	Matthew Schauer	M1230-1320	In Person	This course will examine the history of modern travel through the study of American and British travelers in North America, Europe, Africa and Asia. We will examine the wide variety of reasons they traveled including tourism, exploration, migration, imperial expansion, adventure, military service, and immigration. We will read memoirs and journals, but also analyze art, music, and documentaries to see how these individuals reflected the history of their time. This class connects with HIST1103, HIST1483, HIST1493, HIST1623, HIST1823, and HIST 2023. History of the Present

										(H)
HIST 1103	ANY	Humanities	Survey of American History	HIST 3890	30003	Third Reich: Honors	Jason Lavery	T1030-1120	In Person	Some thirty years ago the Third Reich (1933-1945) was once called "the shadow the twentieth century. The recent rise in anti-Semitic attacks and the rise of fascist parties throughout the world suggest that Nazi Germany's shadow extends far into our own century. This course will address among its central questions the rise of Hitler and the Nazi Party, the mobilization of an entire country to aggressive war, and the Holocaust. - May be used as an add-on for ANY of the following HIST 1103 Survey of American History HIST 1493 American History Since 1865, HIST 1613 Western Civilization to 1500 (H), HIST 1623 Western Civilization after 1500 (H), HIST 1823 World History 1500 to Present HIST 2023 History of the Present (H), HIST 3273 Modern Europe since 1914 (HI), HIST 3113 Germany since 1815 HIST 3333 History of the Second World War (HI), HIST 3343 World War I in Modern European Culture (HI) HIST 3473 British Empire and Commonwealth of Nations
HIST 1483	ANY	Humanities	American History to 1865 (H)	HIST 3890	30000	History of Travel: Americans & Europeans Overseas: Honors	Matthew Schauer	M1230-1320	In Person	This course will examine the history of modern travel through the study of American and British travelers in North America, Europe, Africa and Asia. We will examine the wide variety of reasons they traveled including tourism, exploration, migration, imperial expansion, adventure, military service, and immigration. We will read memoirs and journals, but also analyze art,

										music, and documentaries to see how these individuals reflected the history of their time. This class connects with HIST1103, HIST1483, HIST1493, HIST1623, HIST1823, and HIST 2023. History of the Present (H)
HIST 1493	ANY	Humanities	American History Since 1865	HIST 3890	30003	Third Reich: Honors	Jason Lavery	T1030-1120	In Person	Some thirty years ago the Third Reich (1933-1945) was once called "the shadow the twentieth century. The recent rise in anti-Semitic attacks and the rise of fascist parties throughout the world suggest that Nazi Germany's shadow extends far into our own century. This course will address among its central questions the rise of Hitler and the Nazi Party, the mobilization of an entire country to aggressive war, and the Holocaust. - May be used as an add-on for ANY of the following HIST 1103 Survey of American History HIST 1493 American History Since 1865, HIST 1613 Western Civilization to 1500 (H), HIST 1623 Western Civilization after 1500 (H), HIST 1823 World History 1500 to Present HIST 2023 History of the Present (H), HIST 3273 Modern Europe since 1914 (HI), HIST 3113 Germany since 1815 HIST 3333 History of the Second World War (HI), HIST 3343 World War I in Modern European Culture (HI) HIST 3473 British Empire and Commonwealth of Nations

HIST 1493	ANY	Humanities	American History Since 1865	HIST 3890	30000	History of Travel: Americans & Europeans Overseas: Honors	Matthew Schauer	M1230-1320	In Person	This course will examine the history of modern travel through the study of American and British travelers in North America, Europe, Africa and Asia. We will examine the wide variety of reasons they traveled including tourism, exploration, migration, imperial expansion, adventure, military service, and immigration. We will read memoirs and journals, but also analyze art, music, and documentaries to see how these individuals reflected the history of their time. This class connects with HIST1103, HIST1483, HIST1493, HIST1623, HIST1823, and HIST 2023. History of the Present (H)
HIST 1613	ANY	Humanities	Western Civilization to 1500 (H)	HIST 3890	29998	Leonardo da Vinci: Honors	David Dandrea	W1230-1320	In Person	From the Mona Lisa to The Da Vinci Code, Leonardo da Vinci (1452-1519) has captured the western imagination for centuries. An extraordinary painter, sculptor, and engineer, Leonardo won the admiration of his contemporaries and set the standard for a well-rounded individual dedicated to artistic perfection and scientific discovery. In this course we will study Leonardo da Vinci in his historical context and discuss the transformation of this Renaissance man into a cultural icon.
HIST 2213	ANY	Humanities	World History from Ancient Times to 1500 (H)	HIST 3890	29998	Leonardo da Vinci: Honors	David Dandrea	W1230-1320	In Person	From the Mona Lisa to The Da Vinci Code, Leonardo da Vinci (1452-1519) has captured the western imagination for centuries. An extraordinary painter, sculptor, and engineer, Leonardo won the admiration of his contemporaries and set the

										standard for a well-rounded individual dedicated to artistic perfection and scientific discovery. In this course we will study Leonardo da Vinci in his historical context and discuss the transformation of this Renaissance man into a cultural icon.
HIST 3333	ANY	Humanities	History of the Second World War (HI)	HIST 3890	30003	Third Reich: Honors	Jason Lavery	T1030-1120	In Person	Some thirty years ago the Third Reich (1933-1945) was once called "the shadow the twentieth century. The recent rise in anti-Semitic attacks and the rise of fascist parties throughout the world suggest that Nazi Germany's shadow extends far into our own century. This course will address among its central questions the rise of Hitler and the Nazi Party, the mobilization of an entire country to aggressive war, and the Holocaust. - May be used as an add-on for ANY of the following HIST 1103 Survey of American History HIST 1493 American History Since 1865, HIST 1613 Western Civilization to 1500 (H), HIST 1623 Western Civilization after 1500 (H), HIST 1823 World History 1500 to Present HIST 2023 History of the Present (H), HIST 3273 Modern Europe since 1914 (HI), HIST 3113 Germany since 1815 HIST 3333 History of the Second World War (HI), HIST 3343 World War I in Modern European Culture (HI) HIST 3473 British Empire and Commonwealth of Nations

HIST 3343	29980	Humanities	Renaissance, 1350-1517 (H)	HIST 3890	29998	Leonardo da Vinci: Honors	David Dandrea	W1230-1320	In Person	From the Mona Lisa to The Da Vinci Code, Leonardo da Vinci (1452-1519) has captured the western imagination for centuries. An extraordinary painter, sculptor, and engineer, Leonardo won the admiration of his contemporaries and set the standard for a well-rounded individual dedicated to artistic perfection and scientific discovery. In this course we will study Leonardo da Vinci in his historical context and discuss the transformation of this Renaissance man into a cultural icon.
MATH >2144	ANY	STEM	Any Math Course above Math 2144	MATH 2890	31517	Inquiry Oriented Linear Algebra (Honors)	Melissa Mills	M1330-1420	In Person	Students will engage in challenging task sequences that facilitate an inquiry-oriented approach to learning Linear Algebra. We will work through modules on linear independence and span, matrices, linear transformations, change of basis, diagonalization, and Eigentheory. No prior experience with Linear Algebra is necessary!
MATH >2144	ANY	STEM	Any Math Course above Math 2144	MATH 2890	31518	Further Games of Strategy: Contract Bridge II (Honors)	Jeffrey Mermin	T1630-1745	In Person	Sequel to Games of Strategy: Contract Bridge. The course will discuss intermediate play techniques and advanced bidding conventions. There will be a secondary focus on the variety of different play and scoring formats.
MATH >2144	ANY	STEM	Any Math Course above Math 2144	MATH 2890	31520	Games of Strategy: Contract Bridge (Honors)	Jeffrey Mermin	R1630-1745	In Person	In this course we will learn the basics of playing the game Contract Bridge, one of the most difficult games of strategy with incomplete information (as opposed to games such as chess or go in which both players have complete information). Students will learn the rules of the two phases of the game: the auction,

										or the bidding phase, and then the play of the cards. Students will learn to analyze card positions and think strategically. This involves mental counting of cards that have been played and drawing inferences from those counts of what cards opponents are likely to hold. We will touch on permutations and combinations, as they help us determine the number of options for ways the cards can be distributed, and then use basic probability to determine the most likely outcomes. The game also has social and information-theoretic aspects, requiring respectful and accurate communication with fellow players using the abstract language of bidding. Critical thinking is vital in this course.
MATH >2144	ANY	STEM	Any Math Course above Math 2144	MATH 3890	31519	Further Games of Strategy: Contract Bridge II (Honors)	Jeffrey Mermin	T1630-1745	In Person	Sequel to Games of Strategy: Contract Bridge. The course will discuss intermediate play techniques and advanced bidding conventions. There will be a secondary focus on the variety of different play and scoring formats.
MATH 2103	ANY	STEM	Business Calculus (A)	MATH 2890	31516	Honors Topics in Business Calculus	Detelin Dosev	T0900-1015	In Person	The course will mostly build from topics covered in Business Calculus. We will see what linear regression is, what it is good for, and learn how to use Excel to find the line of "best fit." We will also see how to compute the "current" value of a company and how to compute mortgage payments by hand. We will study some counting techniques and use them to answer questions about probability. This is helpful in making business decisions when

										there is some uncertainty about what will happen. At the end of the course, we will study constrained optimization and see how the technique of Lagrange multipliers can be used to solve real-world economics problems.
MATH 2144	ANY	STEM	Calculus 1 (A)	MATH 2890	31518	Further Games of Strategy: Contract Bridge II (Honors)	Jeffrey Mermin	T1630-1745	In Person	Sequel to Games of Strategy: Contract Bridge. The course will discuss intermediate play techniques and advanced bidding conventions. There will be a secondary focus on the variety of different play and scoring formats.
MATH 2144	Any	STEM	Calculus 1 (A)	MATH 2890	31520	Games of Strategy: Contract Bridge (Honors)	Jeffrey Mermin	R1630-1745	In Person	In this course we will learn the basics of playing the game Contract Bridge, one of the most difficult games of strategy with incomplete information (as opposed to games such as chess or go in which both players have complete information). Students will learn the rules of the two phases of the game: the auction, or the bidding phase, and then the play of the cards. Students will learn to analyze card positions and think strategically. This involves mental counting of cards that have been played and drawing inferences from those counts of what cards opponents are likely to hold. We will touch on permutations and combinations, as they help us determine the number of options for ways the cards can be distributed, and then use basic probability to determine the most likely outcomes. The game also has social and information-theoretic aspects, requiring respectful and accurate communication with fellow

										players using the abstract language of bidding. Critical thinking is vital in this course.
MATH 2144	ANY	STEM	Calculus 1 (A)	MATH 3890	31519	Further Games of Strategy: Contract Bridge II (Honors)	Jeffrey Mermin	T1630-1745	In Person	Sequel to Games of Strategy: Contract Bridge. The course will discuss intermediate play techniques and advanced bidding conventions. There will be a secondary focus on the variety of different play and scoring formats.
MICR 2132	ANY	STEM	Introduction to Microbiology Laboratory	MICR 2890	26752	Discovering Unexplored Bacterial Genomic Diversity: Honors	Wouter Hoff	F1430-1545	In Person	This 2890 is an add-on to MICR 2132 Intro to Micro Lab. This is an unusual honors section, allows students to sequence the genomes of microbes they "discover" in nature as part of Intro Lab.
MICR 2133	ANY	STEM	Introduction to Microbiology	MICR 2890	24168	Introduction to Microbiology: Honors	Matthew Cabeen	F0930-1020	In Person	Honors Add-on for MICR 2133 Introduction to Microbiology
MICR 2133	ANY	STEM	Introduction to Microbiology	MICR 2890	30108	Introduction to Microbiology: Honors	Sabrina Beckmann	F0930-1020	In Person	Honors Add-on for MICR 2133 Introduction to Microbiology
MICR 3223	ANY	STEM	Advanced Microbiology	MICR 3890	28247	Advanced Honors Experience in Microbiology	Randy Morgenstein	M1330-1420	In Person	Add-on Course for Advanced Microbiology MICR 3223
MICR 3253	ANY	STEM	Immunology	MICR 3890	24659	Immunology: Honors	Karen Wozniak	F1330-1420	In Person	Add-on to Immunology
MICR 4053	ANY	STEM	Pathogenic Microbiology	MICR 3890	24576	Pathogenic Microbiology: Honors	Erika Lutter	F1230-1320	In Person	Add-on to Pathogenic Microbiology MICR 4053
MICR 4233	ANY	STEM	Advanced Cell and Molecular Biology	MICR 3890	24170	Advanced Cell and Molecular Biology: Honors	Wouter Hoff	W1330-1420	In Person	Add-on for MICR 3033 Cell and Molecular Biology
MUSI 2573	ANY	Humanities		HONR 2890	28765	EDM Electronic Dance Music: Honors	Mark Perry	M1430-1520	In Person	DM (electronic dance music). This course will cover its history since the disco era and students will learn how to DJ - culminating with an end of the semester dance party, with the students DJing. The instructor specializes in EDM and is a DJ.

PHYS 1114	ANY	STEM	College Physics I (LN)	PHYS 2890	25017	Honors Experience PHYS 1114	Donghua Zhou	T1330-1420	In Person	Add-on for College Physics PHYS 1114
PHYS 2014	ANY	STEM	University Physics I (LN)	PHYS 2890	24250	Honors Experience PHYS 2014	Andrew Yost	M1130-1220	In Person	Add-on to General Physics PHYS 2014
PHYS 2114	ANY	STEM	University Physics II (LN)	PHYS 2890	24251	Honors Experience PHYS 2114	Derek Meyers	W1030-1120	In Person	This course will explore the concepts of mechanics from the point of view of their application to living systems. Topics to be covered include the role of physics in living matter; mechanical challenges to life resulting from the highly viscous environment present at microscopic scales, constraints on force at the cellular scale, motion within cells, tissues, and fluids; and energy, heat, and entropy in biological systems. The class will also cover how cellular machinery (e.g., molecular motors) can convert chemical energy sources to mechanical forces and motion. Students in this class will be introduced to the physics relevant to DNA and other biological systems, including rigidity and elasticity. The course will not require students to buy a textbook.
PLNT 1213	ANY	STEM	Introduction to Plant and Soil Systems	PLNT 4470	22025	Honors Intro Plant Soil System	Beatrix Haggard	R1500-1550	In Person	From Hands-on to History: the story of Crop Production - Students will experience hands on laboratories in the greenhouse and the crop science laboratory. These labs will evaluate identification of various growth characteristics for multiple crops grown in Oklahoma. Including germination and etiolation using growth chambers and the greenhouse to evaluate how environment influences plant growth. Students will also read "The Living Fields:

										Our Agricultural Heritage", and we will discuss the book when not working on labs or in-class demonstrations. This add on will provide a deeper understanding of how production agriculture has evolved into its current form.
POLS 1113	ANY	Social Sciences	American Government	POLS 2890	24261	Odd Clauses of the Constitution: Honors	Danny Adkison	M1230-1320	In Person	Add-on for POLS 1113 American Government
POLS 1113	ANY	Social Sciences	American Government	POLS 2890	24262	Odd Clauses of the Constitution: Honors	Danny Adkison	W1230-1320	In Person	Add-on for POLS 1113 American Government
PSYC 1113	ANY	Social Sciences	Introduction to Psychology (S)	PSYC 2890	29018	Mindfulness: Theory, Research, and Interventions: Honors	Stephanie Sweatt	M1330-1420	On-Line	
PSYC 1113	ANY	Social Sciences	Introductory Psychology (S)	PSYC 2890	24189	Thinking Traps that Affect Your Life: Honors	Tony Wells	W1530-1620	In Person	Add-on for PSYC 1113- We will cover 12 cognitive traps, biases, and heuristics that affect our everyday lives including our relationships, our health, and how we spend our money. The course will involve multiple in-class demonstrations of these traps and biases. We will also discuss how being aware of these traps and, hopefully, avoiding them can improve our lives.
PSYC 1113	ANY	Social Sciences	Introductory Psychology (S)	PSYC 2890	26503	Psychological Issues in Video Games: Honors	Shawn Rose	W1130-1220	In Person	Psychological Issues in Video Games - This course will explore issues in psychology through the lens of video games using specific examples from a variety of mainstream and independent games. Themes covered in the class include the role of stress in games, violence and aggression, social influences, player identity and personality, gender and diversity, and depictions of mental health in video games. In addition to typical discussions, some class

										periods will have students collaboratively playing through selected games during class while discussing issues that emerge through the gameplay.
PSYC 2313		Social Sciences	Psychology of Adjustment	PSYC 2890	26503	Psychological Issues in Video Games: Honors	Shawn Rose	W1130-1220	In Person	Psychological Issues in Video Games - This course will explore issues in psychology through the lens of video games using specific examples from a variety of mainstream and independent games. Themes covered in the class include the role of stress in games, violence and aggression, social influences, player identity and personality, gender and diversity, and depictions of mental health in video games. In addition to typical discussions, some class periods will have students collaboratively playing through selected games during class while discussing issues that emerge through the gameplay.
RELG 1103	ANY	Humanities	Introduction to World Religions (HI)	HONR 2890	28767	Head & Heart in Relation to Human Religious Experience	Doren Recker	R1500-1550	In Person	REL 1103 covers a variety of world religions and this Honors' section will take a careful look at some major issues affecting all relationships between religious and other sorts of beliefs. In this section we will investigate basic issues concerning Faith/Reason (heart/head), focusing on the historical and current relationship(s) between mythos & logos within religious belief. We will center Judeo-Christianity, and ancient and tribal religions, but the issues are central to all religious thought, and students will be challenged to provide their own examples, and to connect material covered here to the other religions discussed in the course

SPCH 2713	ANY	Social Sciences	Introduction to Speech Communication (S)	SPCH 2890	24299	Honors Experience in Speech	Mary Walker	W1330-1420	In Person	This course is designed to supplement your regular section of SPCH 2713. Students will make several special occasion speeches. These types of speeches are more informal than the ones you will make in your regular section, and while the content of your speeches in this course will certainly be important, the course will focus on evaluating and honing your delivery skills.
STAT 2013	ANY	STEM	Elementary Statistics	STAT 2890	25040	Honors Experience in Statistics		F1530-1620	In Person	Games of chance have been one of the historical drivers of mathematical probability since the 1654 series of letters between Pascal and Fermat. In the 21st century, applications of probability have moved beyond gambling into many different types of games. In this seminar, we examine various types of games of chance plus skill. Major assignments are a mathematical exam and a group poster project on some type of game.
STAT 2023	ANY	STEM	Elementary Statistics for Business and Economics	STAT 2890	25040	Honors Experience in Statistics		F1530-1620	In Person	Games of chance have been one of the historical drivers of mathematical probability since the 1654 series of letters between Pascal and Fermat. In the 21st century, applications of probability have moved beyond gambling into many different types of games. In this seminar, we examine various types of games of chance plus skill. Major assignments are a mathematical exam and a group poster project on some type of game.

STAT 2053	ANY	STEM	Elementary Statistics for the Social Sciences (A)	STAT 2890	25040	Honors Experience in Statistics		F1530-1620	In Person	Games of chance have been one of the historical drivers of mathematical probability since the 1654 series of letters between Pascal and Fermat. In the 21st century, applications of probability have moved beyond gambling into many different types of games. In this seminar, we examine various types of games of chance plus skill. Major assignments are a mathematical exam and a group poster project on some type of game.