2015 Spring Semester Honors Add-On Courses

20	0	21197	BOT	4400.701	**Ecology in the New Millennium** – Palmer- T 12:30-1:20 (1 credit hour) [Honors add-on for students enrolled in BIOL 3034]
22	0	21163	HONR	1000.709	**The Black Death** – Graham- M 2:30-3:20 (1 credit hour) [Honors add-on for students enrolled in HIST 1613 or HIST 3233]
22	0	21196	HONR	1000.710	**Ecology and Evolution of Plant Interactions** - Steets- M 3:30-4:20 (1 credit hour) [Honors add-on for students enrolled in BOT 1404]
18	0	21202	HONR	1000.711	**Programming Intelligent Robots** – Crick – W 4:30-5:20 (1 credit hour) [Honors add-on for students enrolled in Computer Science II (CS 2133), C/C++ (CS 2433), or any other mid-level CS class.]
14	0	16153	MATH	2910.701	**Honors Differential Equations** – Mantini – T 10:30-11:20 (1 credit hour) [Honors add-on for students enrolled in MATH 2233]
16	0	21258	PSYC	3120.702	**Up off the Couch: Exploring the "Science" in Behavioral Science** – Thomas – M 2:30-3:20 (1 credit hour) [Honors add-on for students enrolled in PSYC 1113]
16	0	21260	PSYC	3120.703	**Psychology Health** – Leffingwell – W 3:30-4:20 (1 credit hour) [Honors add-on for students enrolled in PSYC 1113]

2015 Spring Semester Honors Add-On Course Descriptions
*Note: Honors Add-On Courses have co-requisite courses and do not fulfill honors seminar requirements.

BOT 4400.701 – Ecology in the New Millennium – The principles taught in General Ecology have largely been developed over the past half century. However, the early 21st Century has witnessed new theoretical and empirical advances that have not yet been incorporated into an introductory curriculum. In addition, an ecological perspective can shed light on current issues, both social and environmental. The purpose of this seminar course is to discuss current primary literature in ecology, as well as focus on the role ecologists play in the public arena. Towards the end of the semester, students will be expected to present a talk to the rest of the class on an issue or a theory that is currently a 'hot topic' in ecology. – Palmer – T 12:30 – 1:30 (1 credit hour) [**CO-REQUISITE NOTE: Must be an honors student enrolled in BIOL 3034 for the Spring 2015 semester.**]

HONR 1000.709 - The Black Death: Catastrophe and its Effects — Honors students will meet regularly to discuss a selection of readings of short historical documents from John Aberth, The Black Death: The Great Mortality of 1348-1350. A brief history with documents. (Bedford St Martin's, 2005) Each meeting will ask students to discuss readings on a particular theme, building a complex understanding of the event's causes and historical context, diverse reactions and long-term effects. These will include medical causes and the struggle to treat the plague, religious explanations and resulting apocalyptic movements, economic impact of the plague and measures such as quarantine, and the scapegoating of minority groups. Students will also be encouraged to engage in limited comparative analysis, including modern outbreaks of the bubonic plague, and monitoring the current Ebola outbreak in West Africa.— Graham — M 2:30-3:20 (1 credit hour) **[CO-REQUISITE NOTE: Must be an honors student enrolled in HIST 1613 or HIST 3233 for the Spring 2015 semester.]**

HONR 1000.710 – Ecology and Evolution of Plant Interactions – Plants are involved in a myriad of interactions with other organisms. We will examine the mutualisms and antagonisms between plants and their animal, fungal, and microbial partners and explore the evolutionary adaptations of plants to these interactions. Through weekly class discussions of scientific papers and popular news items, students will summarize key scientific findings, evaluate the science represented in the news, interpret data, and synthesize scientific information on the evolutionary ecology of species interactions. We will also explore how ongoing global change is effecting plant ecological interactions, such as decline of pollinating insects and introductions of pest species in croplands, and how these changes may influence humanity. – Steets – M 3:30 - 4:20 (1 credit hour) [**CO-REQUISITE NOTE: Must be an honors student enrolled in BOT 1404 for the Spring 2015 semester.**]

HONR 1000.711 – 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 – W 4:30-5:20 [**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 2015 semester.]**

MATH 2910.701 – Honors Differential Equations – Description coming soon! – Mantini – T 10:30-11:20 (1 credit hour) [**CO-REQUISITE NOTE: Must be an honors student enrolled in MATH 2233 for the Spring 2015 semester.**]

PSYC 3120.702 – Up off the Couch: Exploring the "Science" in Behavioral Science - The conception of psychology in American culture typically involves the mentally ill, Dr. Phil, and eccentric clinicians revealing the causes of people's flaws by delving into the dark recesses of their minds. This popular conception leaves out the tremendous understanding of mind and behavior that has been built up over the past century through the methods of scientific inquiry. In this course, students will create videos, gather their own data (from cemeteries of all places), and learn how to be intelligent consumers – and creators – of scientific information, with a de-emphasis on lecture and reading and a focus on hands-on activities. – Thomas – M 2:30-3:20 (1 credit hour) [**CO-REQUISITE NOTE: Must be an honors student enrolled in PSYC 1113 for the Spring 2015 semester.**]

PSYC 3120.703 – Psychology Health - Students in this course will explore psychological aspects of health through the lens of addictive behavior, specifically tobacco use. We will apply information as it is covered in PSYC 1113 relative to one of the greatest public health threats in our country and state. For example, we will discuss the neurobiology of addiction, social and contextual influences, learning processes, and psychological interventions. – Leffingwell – W 3:30-4:20 (1 credit hour) [**CO-REQUISITE NOTE: Must be an honors student enrolled in PSYC 1113 for the Spring 2015 semester.**]