

Binghamton University Scholars Program

Professor William Ziegler, Executive Director

<http://binghamton.edu/scholars/>

Fall 2015 Scholars Requirements and Course Offerings

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Planning For Binghamton University Scholars Courses

For those who entered the Binghamton University Scholars Program in Fall 2014:

Fall 2015:

Those who entered the Scholars Program in Fall 2014 must enroll in and successfully complete a section of SCHL280 during the Fall 2015 semester unless you receive written permission to do otherwise from Professor Ziegler.

For those who entered the Binghamton University Scholars Program in Fall 2013:

Fall 2015 or Spring 2016:

Those who entered the Scholars Program in Fall 13 must register for SCHL327 and complete the Scholars III requirement prior to the close of the Spring 2016 semester unless you receive written permission to do otherwise from Professor Ziegler. Use B-Engaged to submit a Scholars III pre-activity application and a post-activity application for approvals

<https://bengaged.binghamton.edu/organization/buscholars/availableforms>

For those who entered the Binghamton University Scholars Program in Fall 2012:

Fall 2015 or Spring 2016:

Those who entered the Binghamton University Scholars Program in Fall 2012 must register for SCHL427, and complete the Scholars IV requirement prior to the close of the Spring 2016 semester unless you receive written permission to do otherwise from Professor Ziegler. Use B-Engaged to submit a Scholars IV pre-activity application and a post-activity application for approvals

<https://bengaged.binghamton.edu/organization/buscholars/availableforms> .

Additionally, the *Application for Completion of Scholars Program Requirements on B-Engaged* must be completed. <https://bengaged.binghamton.edu/organization/buscholars/availableforms> .

To receive President's Honors (gpa 3.5-4.0) or All-University Honors (gpa 3.25-3.49) upon graduation, those who entered the Binghamton University Scholars Program in Fall 2012 must register for and complete all Scholars requirements including SCHL127, SCHL227, SCHL280s, SCHL327 and SCHL427 prior to the close of the Spring semester unless you receive written permission to do otherwise from Professor Ziegler. **Additionally, an overall GPA of 3.25 is required.** There are no exceptions to the GPA requirement and if not met, an honors designation will not be granted at graduation even if all other requirements of the Scholars Program have been completed.

Future SCHL280 Course Offerings

Predicting which courses will be offered each semester or year is not possible due to the variables associated with faculty availability. However, approximately six SCHL280 courses will be offered every semester.

Winter and Summer sessions: No Scholars courses will be offered during these sessions.

Priority Registration for Binghamton University Scholars

Binghamton University Scholars priority registration time is calculated by having 24 credit hours added to the total number of credit hours you have completed. To determine your priority registration time, only count the courses you have completed, not any courses you are currently taking, then add 24, and then refer to the table below. The two values in the first column in the following table represent the range of credit hours completed (or credit hours completed +24 for Scholars). Please note that the 24 credit hours are added to calculate priority registration ONLY, and do not apply to degree or university requirements.

Credits Earned	Start_Date	Start_Time	End_Date	End_Time
154_999	3/27/2015	1200	5/8/2015	2359
145_153	3/27/2015	1300	5/8/2015	2359
137_144	3/27/2015	1400	5/8/2015	2359
132_136	3/27/2015	1500	5/8/2015	2359
129_131	3/27/2015	1600	5/8/2015	2359
128_128	3/30/2015	0900	5/8/2015	2359
127_127	3/30/2015	1000	5/8/2015	2359
126_126	3/30/2015	1100	5/8/2015	2359
125_125	3/30/2015	1200	5/8/2015	2359
124_124	3/30/2015	1300	5/8/2015	2359
123_123	3/30/2015	1400	5/8/2015	2359
122_122	3/30/2015	1500	5/8/2015	2359
121_121	3/31/2015	0900	5/8/2015	2359
120_120	3/31/2015	1000	5/8/2015	2359
119_119	3/31/2015	1100	5/8/2015	2359
118_118	3/31/2015	1200	5/8/2015	2359
117_117	3/31/2015	1300	5/8/2015	2359
116_116	3/31/2015	1400	5/8/2015	2359
115_115	3/31/2015	1500	5/8/2015	2359
114_114	3/31/2015	1600	5/8/2015	2359
113_113	4/1/2015	0900	5/8/2015	2359
112_112	4/1/2015	1000	5/8/2015	2359
111_111	4/1/2015	1100	5/8/2015	2359
110_110	4/1/2015	1200	5/8/2015	2359
109_109	4/1/2015	1300	5/8/2015	2359
108_108	4/1/2015	1400	5/8/2015	2359
107_107	4/1/2015	1500	5/8/2015	2359
106_106	4/1/2015	1600	5/8/2015	2359
105_105	4/2/2015	0900	5/8/2015	2359
104_104	4/2/2015	1000	5/8/2015	2359
103_103	4/2/2015	1100	5/8/2015	2359
102_102	4/2/2015	1200	5/8/2015	2359
101_101	4/2/2015	1300	5/8/2015	2359
100_100	4/2/2015	1400	5/8/2015	2359
99_99	4/2/2015	1500	5/8/2015	2359
98_98	4/2/2015	1600	5/8/2015	2359
97_97	4/13/2015	0900	5/8/2015	2359
96_96	4/13/2015	1000	5/8/2015	2359
95_95	4/13/2015	1100	5/8/2015	2359
94_94	4/13/2015	1200	5/8/2015	2359
93_93	4/13/2015	1300	5/8/2015	2359
92_92	4/13/2015	1400	5/8/2015	2359
91_91	4/13/2015	1500	5/8/2015	2359

90_90	4/13/2015	1600	5/8/2015	2359
89_89	4/14/2015	0900	5/8/2015	2359
88_88	4/14/2015	1000	5/8/2015	2359
87_87	4/14/2015	1100	5/8/2015	2359
86_86	4/14/2015	1200	5/8/2015	2359
85_85	4/14/2015	1300	5/8/2015	2359
84_84	4/14/2015	1400	5/8/2015	2359
83_83	4/14/2015	1500	5/8/2015	2359
82_82	4/14/2015	1600	5/8/2015	2359
81_81	4/15/2015	0900	5/8/2015	2359
80_80	4/15/2015	1000	5/8/2015	2359
79_79	4/15/2015	1100	5/8/2015	2359
78_78	4/15/2015	1200	5/8/2015	2359
77_77	4/15/2015	1300	5/8/2015	2359
76_76	4/15/2015	1400	5/8/2015	2359
75_75	4/15/2015	1500	5/8/2015	2359
74_74	4/15/2015	1600	5/8/2015	2359
73_73	4/16/2015	0900	5/8/2015	2359
72_72	4/16/2015	1000	5/8/2015	2359
71_71	4/16/2015	1100	5/8/2015	2359
70_70	4/16/2015	1200	5/8/2015	2359
69_69	4/16/2015	1300	5/8/2015	2359
68_68	4/16/2015	1400	5/8/2015	2359
67_67	4/16/2015	1500	5/8/2015	2359
66_66	4/16/2015	1600	5/8/2015	2359
65_65	4/17/2015	0900	5/8/2015	2359
64_64	4/17/2015	1000	5/8/2015	2359
63_63	4/17/2015	1100	5/8/2015	2359
62_62	4/17/2015	1200	5/8/2015	2359
61_61	4/17/2015	1300	5/8/2015	2359
60_60	4/17/2015	1400	5/8/2015	2359
59_59	4/17/2015	1500	5/8/2015	2359
58_58	4/17/2015	1600	5/8/2015	2359
57_57	4/20/2015	0900	5/8/2015	2359
56_56	4/20/2015	1000	5/8/2015	2359
55_55	4/20/2015	1100	5/8/2015	2359
54_54	4/20/2015	1200	5/8/2015	2359
53_53	4/20/2015	1300	5/8/2015	2359
52_52	4/20/2015	1400	5/8/2015	2359
51_51	4/20/2015	1500	5/8/2015	2359
50_50	4/20/2015	1600	5/8/2015	2359
49_49	4/21/2015	0900	5/8/2015	2359
48_48	4/21/2015	1000	5/8/2015	2359
47_47	4/21/2015	1100	5/8/2015	2359
46_46	4/21/2015	1200	5/8/2015	2359
45_45	4/21/2015	1300	5/8/2015	2359
44_44	4/21/2015	1400	5/8/2015	2359
43_43	4/21/2015	1500	5/8/2015	2359
42_42	4/21/2015	1600	5/8/2015	2359
41_41	4/22/2015	0900	5/8/2015	2359
40_40	4/22/2015	1000	5/8/2015	2359
38_39	4/22/2015	1100	5/8/2015	2359
37_37	4/22/2015	1200	5/8/2015	2359
36_36	4/22/2015	1300	5/8/2015	2359
33_35	4/22/2015	1400	5/8/2015	2359
32_32	4/22/2015	1500	5/8/2015	2359

29_31	4/22/2015	1600	5/8/2015	2359
28_28	4/23/2015	0900	5/8/2015	2359
26_27	4/23/2015	1000	5/8/2015	2359
25_25	4/23/2015	1100	5/8/2015	2359
24_24	4/23/2015	1200	5/8/2015	2359
21_23	4/23/2015	1300	5/8/2015	2359
20_20	4/23/2015	1400	5/8/2015	2359
17_19	4/23/2015	1500	5/8/2015	2359
16_16	4/23/2015	1600	5/8/2015	2359
13_15	4/24/2015	0900	5/8/2015	2359
12_12	4/24/2015	1000	5/8/2015	2359
7_11	4/24/2015	1100	5/8/2015	2359
1_6	4/24/2015	1200	5/8/2015	2359
0_0	4/24/2015	1300	5/8/2015	2359

Fall 2015 Binghamton University Scholars Courses

CRN	SUBJ	COURSE	TITLE	GEN-ED	DAYS	TIMES	INSTRUCTOR
25132	SCHL	127	Thinking Like Leonardo DaVinci	-	T	1330-1530	Thompson, A
25133	SCHL	127	Thinking Like Leonardo DaVinci	-	T	1330-1530	Merriwether, A
26751	SCHL	127	Thinking Like Leonardo DaVinci	-	W	930-1130	Thompson, A
26752	SCHL	127	Thinking Like Leonardo DaVinci	-	W	930-1130	Merriwether, A
17741	SCHL	280A	Evolutionary Psychology	N	W	1310-1610	Morrissey, J
21579	SCHL	280B	Innovation in the Modern World	-	T R	1005-1130	Fillo, J
17744	SCHL	280D	Tech & Impact of Solar Energy	J	MWF	1310-1410	Jones, W
21095	SCHL	280E	Food, Nature and Culture	J G	T R	1140-1305	Tomich, D
20013	SCHL	280G	Ghosts in American Culture	C	T R	1450-1615	Tucker, E
21096	SCHL	280H	Early Modern English Tragedy	C H	T R	1625-1750	Walkling, A
27159	SCHL	298	Intermediate Undergrad Project	-	-	-	Ziegler, W
27152	SCHL	299	Intermediate Undergrad Research	-	-	-	Ziegler, W
24655	SCHL	327	Scholars 3: Worlds of Experience	-	-	-	Ziegler, W
25783	SCHL	391	Scholars Teaching Practicum	-	-	-	Nardone, P
26371	SCHL	395	Scholars Internship	-	-	-	Ziegler, W
27462	SCHL	396	Guthrie Scholars Premed Intern	-	-	-	Ziegler, W
24665	SCHL	397	Scholars Independent Study	-	-	-	Ziegler, W
24649	SCHL	427	Scholars 4: Capstone	-	-	-	Ziegler, W
27157	SCHL	498	Advanced Undergrad Project	-	-	-	Ziegler, W
27158	SCHL	499	Advanced Undergrad Research	-	-	-	Ziegler, W

SCHL127 *Thinking Like Leonardo DaVinci*

Credit Hours: 2

Offered only to incoming Binghamton University Scholars, this course will help Scholars get off to a great start at Binghamton University while simultaneously learning how to think like one of the best minds ever to grace the planet. Students will proceed on a journey that couples navigating college with unlocking the mysteries of DaVinci and his work in science, engineering, art, medicine, and more. Students will learn how DaVinci's style of interdisciplinary thinking will translate into great thinking and success at Binghamton University and beyond. Open only to students enrolled in the Binghamton University Scholars Program. Two credit hours.

SCHL298 *Intermediate Undergraduate Project*

Participation in a project under supervision of a faculty member. Approval of proposed project by the faculty member and Scholars Executive Director must be obtained prior to registration. Written final report required. Supervising faculty member must be a regular member of the Binghamton University faculty. Variable credit (1-4 credit hours; 40 hours per semester, per credit hour required). Prerequisites: SCHL127 (intended for freshmen and sophomore Binghamton University Scholars).

SCHL299 *Intermediate Undergraduate Research*

Conduct independent research under the guidance of a faculty member or assist with ongoing faculty research. Approval of proposed research by the faculty member and Scholars Executive Director must be obtained prior to registration. Written final report required. Supervising faculty member must be a regular member of the Binghamton University faculty. Variable credit (1-4 credit hours; 40 hours per semester, per credit hour required). Prerequisites: SCHL127 (intended for freshmen and sophomore Binghamton University Scholars).

SCHL327 *Scholars III: Worlds of Experience*

All Scholars expecting to complete the Scholars III requirements during the Fall 2015 semester must register for SCHL327 and complete a Scholars III Pre-Approval Application on B-Engaged before registering. Upon completion of the Scholars III activity, a Post-Approval Application must be submitted through B-Engaged <https://bengaged.binghamton.edu/organization/buscholars/availableforms>. Please note that SCHL327 is a zero-credit course that will not be graded, but must be completed as part of the Scholars Program requirements. If the Scholars III requirement is being completed as study abroad, or during the summer or semester break, then Scholars must register for SCHL327 in the semester immediately following completion of the requirements. Decker School of Nursing students and School of Management students can satisfy this requirement through NURS 321 and MGMT 350. However, DSON and SOM Scholars must still register for SCHL327 and complete the pre and post approval forms on B-Engaged.

Course Description: Scholars III requires students to participate actively in Scholars Program activities and to seek and complete an experiential learning activity, which provides the opportunity to put into practice the knowledge gained from courses taken. Scholars III is intended to expand your perspective on your education and help you define and direct your progress from the classroom to the world of work. A commitment of at least 30 hours is required for the activity, the activity must be approved the Scholars Executive Director in advance, and the activity must be supervised. Scholars III requirements can be achieved through a variety of experiential education activities including internships, study abroad, research, lab experience, clinical experience, independent study and other activities as described in the Scholars Handbook. For students in SOM, DSON, and Watson (Engineering programs only), the Scholars III requirements are met by specific degree requirements. Additionally, all students, including those listed in the programs above are required to submit a resume that has been reviewed and signed by an advisor in the Career Development Center or other advising office. Details of the requirements can be found in the Scholars Handbook (online).

SCHL391 *Scholars Teaching Practicum*

Credit Hours: 2

Independent study through teaching-related experiences in a particular Scholars Program course. Various assignments are closely directed by the instructor in that course, including development of syllabi and other course materials; creation and reading of examinations; lecturing and/or discussion leadership. May include responsibilities coordinating students working on service related activities under direction of an instructor. Prerequisites: SCHL127, SCHL227, SCHL280 and permission of Professor Ziegler, Executive Director

SCHL395 *Scholars Internship*

Credit Hours: 1 to 4

On-the-job, practical, hands-on experience at a preapproved organization providing an opportunity for Scholar interns to work in industrial, commercial, academic, or not-for-profit institutions and to apply their knowledge to practical professional problem solving. Variable credit of 1-4 hours with 40 hours of experiential activity required per credit hour. Prerequisites: SCHL 127, SCHL 280, restricted to Binghamton University Scholars, and Permission of Scholars Executive Director.

SCHL396 *Guthrie Scholars Premedical Internship*

Credit hours: 12

Instructors: Physicians and professional staff at Guthrie Clinic and Robert Packer Hospital

Instructor of Record: Professor William Ziegler, Scholars Executive Director

Full-time, unpaid internship for Scholars wishing to attend medical school upon graduation. Takes place over an entire semester in-residence at the Guthrie Clinic and Robert Packer Hospital campus, a 254-bed teaching hospital with a Level II Trauma center, Intensive Care Unit, clinical skills lab, and other diagnostic, medical, and surgical services. Interns complete weekly reflection papers and time log, a research project, a medical terminology class, an observership in trauma and on Guthrie's helicopter air-ambulance, skills lab training, clinical observations, medical/surgical grand rounds, resident and student lectures, and teaching rounds. Interns also shadow doctors, nurses, social workers, nutritionists, allied health care providers, and administrators across the Guthrie organization. Interns spend an average of 48 hours per week toward all requirements of the internship for 15 weeks. Credit hours: 12; letter grade.

Prerequisites: SCHL127, SCHL280 (one section) and SCHL227 preferred. Junior level at the time of the internship preferred. Restricted to students enrolled in the Binghamton University Scholars Program. Permission of Scholars Executive Director, and an application process through Guthrie required.

SCHL397 *Scholars Independent Study*

Credit Hours: 1 to 4

Independent study supervised by an instructor approved by the Scholars Executive Director. Permission of Professor Ziegler, Executive Director required.

SCHL427 *Scholars IV: Capstone*

All Scholars expecting to complete the Scholars IV requirements during the Fall 2015 semester must register for SCHL427 and complete a Scholars IV Pre-Approval Application on B-Engaged before registering. Upon completion of the Scholars IV activity, a Post-Approval Application must be submitted through B-Engaged. <https://bengaged.binghamton.edu/organization/buscholars/availableforms>. Please note that SCHL427 is a zero

credit course that will not be graded, but must be completed as part of the Scholars Program requirements. Scholars MUST register for SCHL427 in the semester in which he/she will complete the requirements for Scholars IV. If the Scholars IV requirement is being completed during the summer or semester break, then Scholars must register for SCHL427 in the semester immediately following completion of the requirements. The Scholars IV Post-Approval form must be submitted in the same semester in which the Scholar registers for SCHL427 upon completion of the Scholars IV activity. Scholars IV requires students to participate actively in Scholars Program activities, and to seek and complete a capstone learning activity related to your major. Scholars IV is intended to bring together all of the learning you have accomplished and leverage that learning into a final capstone activity. The selected capstone activity must be approved by the Scholars Director in advance.

The following options are available to complete the Scholars IV requirement:

- **Double Major:** Complete a major in two different departments in the same school or college (e.g., a degree in computer science and a degree in electrical engineering, both from the Watson School).
- **Double Degree:** Obtain degrees in two different schools/colleges (e.g., a degree from Harpur College and a degree from the School of Management)
- **Department Honors:** Earn honors in the department of your major (Check to see if your major has an honors program).
- **Decker School of Nursing senior year clinical:** NURS 471
- **Watson School Senior Project** (engineering programs only, not CS): ISE 492, EECE 488, ME 494, BE 451
- **School of Management's Global Strategic Management course:** MGMT 411
- **Guthrie Scholars Premedical Internship:** Scholars in this competitive internship live on the Guthrie Campus in Sayre, PA for a semester while completing an undergraduate residency program.
- **Capstone Course option 1:** Complete a 400-level (or above) elective course that does not count towards your major requirements.
- **Capstone Course option 2:** Complete a 400-level (or above) elective course that does count towards your major requirements and identify, with the help of your instructor, additional requirements, which you must complete in addition to the course requirements. This should involve a minimum of 40 hours of activity in addition to the work required for the course.
- **Capstone Research, Project or Independent Study:** Requires a minimum 50-hour commitment towards this activity and supervision by a faculty member.

SCHL498 *Advanced Undergraduate Project*

Participation in a project under supervision of a faculty member. Approval of proposed project by the faculty member and Scholars Executive Director must be obtained prior to registration. Written final report required. Supervising faculty member must be a regular member of the Binghamton University faculty. Variable credit (1-4 credit hours; 40 hours per semester, per credit hour required). Prerequisites: SCHL127, SCHL227, SCHL280 (intended for junior and senior Binghamton University Scholars).

SCHL499 *Advanced Undergraduate Research*

Conduct independent research under the guidance of a faculty member or assist with ongoing faculty research. Approval of proposed research by the faculty member and Scholars Executive Director must be obtained prior to registration. Written final report required. Supervising faculty member must be a regular member of the Binghamton University faculty. Variable credit (1-4 credit hours; 40 hours per semester, per credit hour required). Prerequisites: SCHL127, SCHL227, SCHL280 (intended for junior and senior Binghamton University Scholars).

Fall 2015 Scholars SCHL280 Courses

SCHL280A *Evolutionary Psychology*

Instructor: Professor Joseph Morrissey, Dept. of Psychology

General Education: N – Social Science

Credit Hours: 4

Course Description:

Evolutionary psychology (EP) explains psychological traits—such as memory, perception, or language—as adaptations, that is, as the functional products of natural selection or sexual selection. Adaptationist thinking about physiological mechanisms, such as the heart, lungs, and immune system, is common in evolutionary biology. Evolutionary psychology applies the same thinking to psychology. Modern evolutionary psychologists argue that much of human behavior is generated by psychological adaptations that evolved to solve recurrent problems in human ancestral environments. Other adaptations, according to EP, might include the abilities to infer others' emotions, to discern kin from non-kin, to identify and prefer healthier mates, to cooperate with others, and so on. Evolutionary psychologists see those behaviors and emotions that are nearly universal, such as fear of spiders and snakes, as more likely to reflect evolved adaptations. Evolved psychological adaptations (such as the ability to learn a language) interact with cultural inputs to produce specific behaviors (e.g., the specific language learned). This view is contrary to the idea that human mental faculties are general-purpose learning mechanisms. Prerequisite: Must be enrolled in the Binghamton University Scholars Program. General Education: N - Social Science.

Instructor Biography:

Professor Morrissey teaches the core courses (Introductory Psychology, Statistics, Research Methods) in the Dept. of Psychology and also the Industrial/Organizational Psychology undergraduate seminar. Occasionally he teaches experimental courses ranging from Perception to Learning to Physiological Psychology. He is also in charge of coordinating the Dept. of Psychology undergraduate internship program with the University's Career Development Center. Professor Morrissey is the faculty advisor to Psi Chi, the national honor society for psychology majors. He is also faculty advisor to the Student Psychological Association (SPA), a student-run organization devoted to increasing career opportunities for all psychology majors as well as community service.

SCHL280B *Innovation and the Modern World*

Instructor: Professor John Fillo, Special Assistant to the Dean of Engineering, and former Professor and Chair Watson Biomedical Engineering

General Education: none

Credit Hours: 4

Course Description:

The course is designed to enhance student understanding of science and technology via technology history. The Industrial Revolution ushered in humanity's first machine age, progress driven primarily by technological innovations; some would say that we are moving into or we are in the second machine age. The course looks at the fundamental characteristics of the first and second machine ages as well as their impact on politics and culture. Secondly, we explore the consequences of technological innovation on the current spread between labor productivity and employment. What are the implications for future employment, the type of jobs that the second machine age holds in store for us? Prerequisite: Must be enrolled in the Binghamton University Scholars Program.

Instructor Biography:

Dr. John Fillo joined the Watson School as professor and chairman of the Department of Mechanical and Industrial Engineering in August, 1984, from Brookhaven National Laboratory. There he was a mechanical engineer in the Department of Nuclear Energy and worked on engineering research of nuclear fusion reactor designs and other advanced energy systems. Prior to his position at Brookhaven, he taught at the University of Texas-El Paso and the University of Massachusetts, Amherst, in the departments of mechanical engineering. His thesis and dissertation dealt with heat transfer problems in magneto-hydrodynamics. Currently, Fillo is the associate dean for research and external affairs in the Watson School. Fillo's main research interests include thermal fluid analysis, mathematical modeling, heat transfer in electronics and advanced technology.

SCHL280D *Technology and Impact of Solar Energy*

Instructor: Professor Wayne E. Jones, Jr., Dept. of Chemistry

General Education: J – Joined Composition and Oral Communication

Credit Hours: 4

Course Description:

Advances in solar energy generation have begun to replace conventional fossil fuel energy sources. During the next five years, the costs of solar systems and other alternatives are expected to reach "grid parity" where they will compete economically with traditional sources of power. In this course, the technologies and the policies that led to these advances will be discussed. Students will consider the economic and environmental changes that will occur. Students will also have opportunities to test and work with recent advanced technologies developed on the Binghamton campus.

Instructor Biography:

Dr. Wayne Jones is professor and chair in the Department of Chemistry at the State University of New York at Binghamton (Binghamton University) where he has served in numerous leadership roles on the faculty for 20 years including as director of the Center for Learning and Teaching (1996-2008) and interim dean of Harpur College of Arts and Sciences (2012-2013). He received his BS from St. Michael's College and his PhD in inorganic chemistry from the University of North Carolina at Chapel Hill. He completed post-doctoral work at the University of Texas at Austin before joining the faculty at Binghamton in 1993. His research and scholarship has been recognized internationally in the area of molecular wires and devices, including recognition as a Fellow of the American Chemical Society in 2010. He has published over 125 research articles, review chapters and patents in the areas of photoinduced electron and energy transfer in macromolecular systems including molecular wires, electrically and thermally conducting nanomaterials, photovoltaics in organic/inorganic hybrid materials, photocatalytic degradation of toxic agents and fluorescent conjugated polymer sensors. His research efforts have been supported by grants from the NIH, NSF, ACS-PRF and the DOD, as well as several industrial partners. His current collaborations include the Center for Autonomous Solar Power (CASP) and the Center for Advanced Microelectronics Manufacturing (CAMM).

Recipient of several teaching awards including the State University of New York Chancellor's Award for Excellence in Teaching in 2001, his teaching interests involve long-term curriculum development in chemistry, including more expanded use of technology. He is on the editorial board of the *Journal of Educational Technology Systems* and serves on the Faculty Access to Computing Technologies committee for the State University of New York (SUNY). He has worked with interdisciplinary teams of scientists and non-scientists on curricular reforms with grant support from the National Science Foundation, Department of Education and the Howard Hughes Medical Institute. In 2008, he established the Go Green Institute, a program designed to inspire middle-school students to pursue careers in science and engineering. He has worked as an external evaluator on several nationally funded learning initiatives related to nanotechnology and student-centered learning, and served as a reviewer on higher-education accreditation teams at the department and institutional levels.

SCHL280E *Food, Nature, & Culture*

Instructor: Professor Dale Tomich, Dept. of History

General Education: J – Joined Composition and Oral Communication

G – Global Interdependencies

Credit Hours: 4

Course Description:

The food human beings eat is perhaps the most direct expression of their natural being and dependence on nature. Yet what humans eat and how they eat it is profoundly linked to culture and history. Through a treatment of selected food products (beef, wheat, rice, maize, sugar, coffee, tea, and cocoa) this course examines the formation of a world economy over the past 500 years. It seeks to understand how changes in the production, distribution and consumption of food organize through the formation of integrated world markets has effected environment, social organization, and cultural meanings and created global interdependencies.

Instructor Biography:

Dr. Dale Tomich is Professor of Sociology and History. He has written extensively on world-economy, Atlantic slavery, and plantation agriculture in the Americas. He has been visiting professor at various universities, including the graduate program in social anthropology at Brazil's National Museum, in the history departments at Princeton University, the University of Paris, and the University of São Paulo, and in development studies at the University of California Berkeley.

SCHL280G *Ghosts in American Culture*

Instructor: Professor Libby Tucker

General Education: C - Composition

Credit Hours: 4

Course Description:

We will analyze the significance of ghosts in American folklore and literature, with attention to Native American, European American, African American, and Asian American traditions. Excerpts of films will supplement class discussions. Students will do field and library research in preparing group presentations to be given at the end of the semester. Format: discussion. Three short papers and one longer one. Oral group presentation. Texts: Weinstock, *Spectral America*; Kingston, *Woman Warrior*; Silko, *Ceremony*; Groff, *Monsters of Templeton*; Tucker, *Haunted Halls*. Prerequisite: Binghamton University Scholar.

Instructor Biography:

Dr. Elizabeth Tucker, Professor of English at Binghamton University, is the editor of *Children's Folklore Review* and president of the International Society for Contemporary Legend Research. She received her doctorate in folklore from Indiana University, where she developed specializations in children's and adolescents' folklore, folklore of the supernatural, and legends. She has written five books: *Campus Legends: A Handbook* (2005), *Haunted Halls: Ghostlore of American College Campuses* (2007), *Children's Folklore: A Handbook* (2008), *Haunted Southern Tier* (2011) and *New York State Folklife Reader: Diverse Voices* (forthcoming in October of 2013). She feels very lucky to have gotten to know many New Yorkers who have told wonderful stories.

SCHL280H *Early Modern English Tragedy*

Instructor: Professor Andrew Walkling, Dept. of Art History

General Education: C – Composition

H – Humanities

Credit Hours: 4

Course Description:

This composition-based course will be centered around the reading and discussion of twelve English dramatic tragedies written between 1561 and 1731. Our aim will be to explore the internal dynamics of the tragic mode, as well as external political, social, and literary factors that influenced the creation and reception of tragedy in the “long seventeenth century.” Students will respond both in class discussion and in regular writing assignments to the individual plays and to occasional supplementary materials. Two of these writing assignments will incorporate a process of substantial revision; class time will also be spent discussing writing techniques and peer-reviewing students’ written work.

Instructor Biography:

Dr. Andrew Walkling is Dean's Assistant Professor of Early Modern Studies. He received his Ph.D. in British History from Cornell University in 1997, and joined the Binghamton faculty in 2001 with a joint appointment to the Departments of Art History, English, and Theatre. His research and teaching interests focus on early modern England, with an emphasis on the English court and courtly cultural production in the late seventeenth century, and are situated within and among several disciplines, including history, visual culture, literary studies, performance studies, and musicology. In particular, he is an expert on seventeenth-century English musical theatre and on the composer Henry Purcell. His work explores early modern cultural materials from an interdisciplinary perspective, seeking to rethink the configurations and interrelationships of conventionally separate genres—visual, dramatic, literary, musical—and to understand them as part of a wider "textuality" deployed in the construction and dissemination of seventeenth-century absolutism. He is currently working on a monograph entitled *Masque and Opera in Restoration England*, and is co-editor of a revised edition of Matthew Locke's *Cupid and Death* (1653/1659), to be published in the "Musica Britannica" series. He is also active as a Baroque 'cellist, and directs the Binghamton Baroque Ensemble.