

Binghamton University Scholars Program

Professor William Ziegler

Executive Director

<http://binghamton.edu/scholars>

Spring 2017 Course Offerings

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PERMISSION OF INSTRUCTOR IS REQUIRED FOR SCHL280V and will include a trip to Greece (additional costs apply):

SCHL 280V Refugee Crisis in the Middle East; Gen-eds: N, G, J

- **Please seek permission from the instructor NOW.** Do not wait until registration opens. Details regarding this course are provided elsewhere in this document. **For permission, contact:** Professor Kent Schull, kschull@binghamton.edu
- **Be sure to read and understand all requirements (provided elsewhere in this document) including an additional financial obligation, before seeking permission.**
- **To begin the permission process,** students must fill out a form provided by the Office of International Programs at http://binghamton-oip.terradotta.com/index.cfm?FuseAction=Programs.ViewProgram&Program_ID=10089

Note regarding Calculus III (MATH323):

Multiple sections of Calculus III are offered each semester. For Spring 2017, we have reserved seats in MATH323 section 07 for Scholars (CRN 16955 with Professor Mogilski). This is not a Scholars course and students other than Scholars will also be in the class. This is simply a way of directing Scholars to one particular section of Calc III in case Scholars would like to be in one section together.

I. Planning For Scholars Courses

For those who entered the Binghamton University Scholars Program in Fall 2016:

Those who entered the Scholars Program in Fall 16 must enroll in and successfully complete a section of SCHL280 during the Spring 2017 semester unless you receive written permission to do otherwise from Professor Ziegler.

For those who entered the Binghamton University Scholars Program in Fall 2015:

Those who entered the Scholars Program in Fall 15 must enroll in and successfully complete SCHL227 during the Spring 2017 semester unless you receive written permission to do otherwise from Professor Ziegler.

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

Those who entered the Scholars Program in Fall 14 must register for SCHL327 and complete the Scholars III requirement prior to the close of the Spring 2017 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.

If you are planning to graduate early, please complete the *Application for Completion of Scholars Program Requirements* on B-Engaged and please email Katherine Bouman at ksbouman@binghamton.edu

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

Those who entered the Binghamton University Scholars Program in Fall 2013 must register for SCHL427, and complete the Scholars IV requirement prior to the close of the Spring 2017 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. Additionally, the *Application for Completion of Scholars Program Requirements* on B-Engaged must be completed semester you plan on graduating.

II. Graduating With Honors

To receive ***President's Honors*** (3.5-4.0 GPA) or ***All-University Honors*** (3.25-3.49) upon graduation; those who entered the Binghamton University Scholars Program in Fall 2013 (or Fall 2014 if graduating early) must register for and complete all Scholars requirements including SCHL127, SCHL227, two SCHL280s, SCHL327 and SCHL427 prior to the close of the Spring 2017 semester unless you receive written permission to do otherwise from Professor Ziegler. Scholars must file an *Application for Completion of Scholars Program Requirements* on B-Engaged prior to graduation. 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 were completed.

III. Priority Registration for 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**. Courses you are currently taking are not included in the credit hour count. To determine your priority registration time, count the credit hours of the courses you have completed, not any courses you are currently taking, add 24, and then refer to the registration time-table. The two values in the right-most column in the following table represent the range of credit hours completed (plus 24). Please note that 24 credit hours are added to calculate priority registration ONLY. These credits will NOT appear on BU brain when viewing your registration time slot and do not apply to degree or university requirements.

Date	Time	Credits Earned
10/31/2016	9:00AM	Graduate Students
10/31/2016	1:00PM	157-999
10/31/2016	2:00PM	147-156
10/31/2016	3:00PM	141-146
10/31/2016	4:00PM	137-140
10/31/2016	5:00PM	134-136
11/1/2016	09:00AM	131-133
11/1/2016	10:00AM	129-130
11/1/2016	11:00AM	127-128
11/1/2016	12:00PM	126-126
11/1/2016	1:00PM	124-125
11/1/2016	2:00PM	123-123
11/1/2016	3:00PM	122-122
11/1/2016	4:00PM	120-121
11/1/2016	5:00PM	119-119
11/2/2016	09:00AM	118-118
11/2/2016	10:00AM	116-117
11/2/2016	11:00AM	115-115
11/2/2016	12:00PM	114-114
11/2/2016	1:00PM	113-113
11/2/2016	2:00PM	112-112
11/2/2016	3:00PM	111-111
11/2/2016	4:00PM	110-110
11/2/2016	5:00PM	109-109
11/3/2016	09:00AM	108-108
11/3/2016	10:00AM	107-107
11/3/2016	11:00AM	106-106
11/3/2016	12:00PM	105-105
11/3/2016	1:00PM	104-104

11/3/2016	2:00PM	103-103
11/3/2016	3:00PM	102-102
11/3/2016	4:00PM	101-101
11/3/2016	5:00PM	100-100
11/4/2016	09:00AM	99-99
11/4/2016	10:00AM	98-98
11/4/2016	11:00AM	97-97
11/4/2016	12:00PM	96-96
11/4/2016	1:00PM	95-95
11/4/2016	2:00PM	94-94
11/4/2016	3:00PM	93-93
11/4/2016	4:00PM	92-92
11/4/2016	5:00PM	91-91
11/7/2016	09:00AM	90-90
11/7/2016	10:00AM	89-89
11/7/2016	11:00AM	88-88
11/7/2016	12:00PM	87-87
11/7/2016	1:00PM	86-86
11/7/2016	2:00PM	85-85
11/7/2016	3:00PM	84-84
11/7/2016	4:00PM	83-83
11/7/2016	5:00PM	82-82
11/8/2016	09:00AM	81-81
11/8/2016	10:00AM	80-80
11/8/2016	11:00AM	79-79
11/8/2016	12:00PM	78-78
11/8/2016	1:00PM	77-77
11/8/2016	2:00PM	76-76
11/8/2016	3:00PM	75-75
11/8/2016	4:00PM	74-74
11/8/2016	5:00PM	73-73
11/9/2016	09:00AM	72-72
11/9/2016	10:00AM	71-71
11/9/2016	11:00AM	70-70
11/9/2016	12:00PM	69-69
11/9/2016	1:00PM	68-68
11/9/2016	2:00PM	67-67
11/9/2016	3:00PM	66-66
11/9/2016	4:00PM	65-65
11/9/2016	5:00PM	64-64
11/10/2016	09:00AM	63-63

11/10/2016	10:00AM	62-62
11/10/2016	11:00AM	61-61
11/10/2016	12:00PM	60-60
11/10/2016	1:00PM	59-59
11/10/2016	2:00PM	58-58
11/10/2016	3:00PM	57-57
11/10/2016	4:00PM	56-56
11/10/2016	5:00PM	55-55
11/11/2016	09:00AM	54-54
11/11/2016	10:00AM	53-53
11/11/2016	11:00AM	52-52
11/11/2016	12:00PM	50-51
11/11/2016	1:00PM	49-49
11/11/2016	2:00PM	48-48
11/11/2016	3:00PM	47-47
11/11/2016	4:00PM	46-46
11/11/2016	5:00PM	45-45
11/14/2016	09:00AM	44-44
11/14/2016	10:00AM	43-43
11/14/2016	11:00AM	41-42
11/14/2016	12:00PM	40-40
11/14/2016	1:00PM	39-39
11/14/2016	2:00PM	37-38
11/14/2016	3:00PM	36-36
11/14/2016	4:00PM	34-35
11/14/2016	5:00PM	33-33
11/15/2016	09:00AM	32-32
11/15/2016	10:00AM	30-31
11/15/2016	11:00AM	29-29
11/15/2016	12:00PM	28-28
11/15/2016	1:00PM	26-27
11/15/2016	2:00PM	25-25
11/15/2016	3:00PM	24-24
11/15/2016	4:00PM	21-23
11/15/2016	5:00PM	20-20
11/16/2016	09:00AM	18-19
11/16/2016	10:00AM	17-17
11/16/2016	11:00AM	16-16
11/16/2016	12:00PM	13-15
11/16/2016	1:00PM	12_12
11/16/2016	2:00PM	9_11

IV. Spring 2017 Scholars Courses

SCHL 227: If not us, who? If not now, when?

NOTE: All second semester sophomore Scholars are required to take this course. Please note that there are six sections, but only two different time options. Be sure to plan your schedule carefully so that you can register for at least one of the options.

Course Coordinator: Elizabeth Mellin, Associate Professor, CCPA

Course Lecturers:

- Kerry Stamp, Associate Director for Study Abroad in the Office of International Education and Global Initiatives' Education Abroad
- Alison Handy Twang, Assistant Director at the Center for Civic Engagement
- Scott Corley, Associate Professor in the History, Philosophy, and Social Science Department at SUNY Broome Community College

Gen Ed designations: None

Credit Hours: 2

Tuesday:

1:15 pm – 2:40 pm	CRN: 27732	Instructor: Twang	Section: 01
	CRN: 26793	Instructor: Corely	Section: 02
	CRN: 26794	Instructor: Stamp	Section: 03

Thursday:

2:50 pm – 4:15 pm	CRN: 22015	Instructor: Twang	Section: 04
	CRN: 27733	Instructor: Corely	Section: 05
	CRN: 27734	Instructor: Stamp	Section: 06

Course Description: Public Scholarship, Community Engagement, and Social Change. Poverty. School dropout. Unemployment. Climate change. This course is an introduction to the issues, challenges, and opportunities of community life in the early 21st century. This course provides students with a foundation for understanding the role of public scholarship, community engagement, and social change. We will examine key research and theory underlying recent thinking about community engagement, as well as explore strategies for responsible social change. The course will involve presentations of engaged research and collaboration by faculty and community partners from various disciplines. The class will include group activities, problem-based learning, and discussion. Working in small teams, students will design, carry out, and analyze data focused on experiences with service-learning or engaged research in the

Binghamton, NY community. From the data, students will generate specific tools to help support authentic service-learning or engaged research that is generative for both communities and students. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Two credit hours.

Instructor Bio: Elizabeth Mellin is an Associate Professor in the College of Community and Public Affairs, and Director of the interdisciplinary doctoral program in Community and Public Affairs. Originally from Chicago, Elizabeth specializes in counseling children and adolescents, especially young women with depression. She was previously faculty at Penn State University where she taught courses like Counseling Adolescents and Sexuality Issues in Counseling. Elizabeth lives with her wife (Allison) and 5 year-old son (Marshall) in Ithaca, NY. She loves healthy cooking, (weirdly) both newscasts and "reality" television, and playing with her Labrador retriever, KaBoom!

Instructor Bio: Scott Corley is an Associate Professor in the History, Philosophy, and Social Science Department at SUNY Broome Community College, where he primarily teaches Western Civilization I, U.S. History II, Domestic Social Problems, and African American History. Scott is engaged in racial justice work and has given workshops and presentations on multiculturalism and anti-racism with numerous agencies in the area including Broome County's YWCA, the local branch of Citizen's Action of New York, and New York Campus Compact. In addition to having served as SUNY BCC's Faculty Advisor for the college's Black Student Union, the Civic Engagement and Service-Learning club, and the "Kingsman" Volunteer club, he serves on multiple committees, including BCC's shared governance and Co-Chairs SUNY BCC's President's Task Force for Diversity and Inclusion. As well as actively chairing SUNY Broome's Civic Engagement Board, he staffs Broome's Center for Civic Engagement and works with the National Issues Forums Institute, the Kettering Foundation, and The Democracy Commitment to promote deliberative democracy and civic engagement initiatives. Scott has organized and moderated several public deliberations and facilitated public deliberation moderator trainings. Currently, Scott lives with his wife, Pamela, in the city of Binghamton with their chihuahua, Mia. Corley is an Associate Professor in the History, Philosophy, and Social Science Department at SUNY Broome Community College, where he primarily teaches Western Civilization I, U.S. History II, Domestic Social Problems, and African American History. Scott is engaged in racial justice work and has given workshops and presentations on multiculturalism and anti-racism with numerous agencies in the area including Broome County's YWCA, the local branch of Citizen's Action of New York, and New York Campus Compact. In addition to having served as SUNY BCC's Faculty Advisor for the college's Black Student Union, the Civic Engagement and Service-Learning club, and the "Kingsman" Volunteer club, he serves on multiple committees, including BCC's shared governance and Co-Chairs SUNY BCC's President's Task Force for Diversity and Inclusion. As well as actively chairing SUNY Broome's Civic Engagement Board, he

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Instructor Bio: Alison Handy Twang is the Assistant Director at the Center for Civic Engagement. In this role, she is broadly responsible for promoting, developing and expanding community engagement opportunities for students, with a particular focus on community-based programming and student democratic engagement. Before joining CCE, she worked in the nonprofit sector, focusing on philanthropy and student and young adult civic engagement. She received her bachelor's degree in political science and master's degree in public administration from Binghamton University and is currently pursuing her PhD in community and public affairs. Alison's research interests are focused on civic learning, higher education community engagement, and campus-community partnerships. She serves on the board of directors for the YWCA of Binghamton/Broome County and as a member of the advisory committee for the Rural Health Service Corps/ AmeriCorps program. She currently resides in Binghamton with her husband, Dylan, and their chocolate lab, Keene.

Instructor Bio: Kerry Stamp is the Associate Director for Study Abroad in the Office of International Education and Global Initiatives' Education Abroad at Binghamton University, overseeing all Binghamton education abroad programming. Originally from White Plains, NY, Kerry is currently a Ph.D. candidate in the Binghamton University College of Community and Public Affairs interdisciplinary doctoral program. She holds a Masters of Public Administration degree and a Bachelors of Spanish Language and Literature, also from Binghamton University. Much of her research and professional work centers around her passion for ethical civic engagement practices, both on a local and global level. Her commitment to civic engagement is evident in her community involvement, serving locally on the board of directors of the American Civic Association and the YWCA of Binghamton and Broome County in past years, and currently acting as a board officer for a Peru-based organization, Corazon de Dahlia. Two recent publications that Kerry co-authored focus on the concept of solidarity in service-learning partnerships. She enjoys playing soccer and travelling in her free time.

SCHL 327: Scholars III: Worlds of Experience

All Scholars expecting to complete the Scholars III requirements during the Spring 2017 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 by May 1st. Please note that SCHL327 is a zero-credit course, but it must be completed as part of the Scholars Program requirements. A grade of P or F will appear on transcripts at the conclusion of the course.

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.

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 by the Scholars Executive Director via an application on B-Engaged in advance, and the activity must be supervised. Scholars III requirements can be achieved through a variety of experiential education activities as described in the Scholars Handbook.

OPTIONS FOR COMPLETING SCHL 327:

- Internship
- Study Abroad
- Clinical Experience
- Laboratory Experience
- Research Experience
- Teaching Practicum or Teaching Assistant
- Field Study
- Musical or Theater Production
- Studio Experience
- Professional Paper/Poster/Presentation
- NURS 321 (DSON)
- MGMT 350 (SOM)
- PSYC 493 (Harpur Psych ABA Track)
- SCHL 396 Guthrie Scholars Premedical Internship
- Freshmen Research Immersion (FRI) - choose one:
 - BIOL 323
 - PHYS 235
 - MSE 212
 - PSYC 364
 - CHEM 262
 - EECE 215
 - CS 215
 - ANTH 305
 - ENVI 334
 - GEOL 334
- Other (please explain)

SCHL 391: 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.

SCHL 395: Scholars Internship

Credit Hours: 1 to 4

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.

SCHL 396: Guthrie Scholars Premedical Internship

Credit Hours: up to 12

Course Description: 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: 1-12 variable; 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. <http://www.binghamton.edu/scholars/resources/guthrie.html>

SCHL 397: 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.

SCHL 427: Scholars IV: Capstone

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 Executive Director in advance through B-Engaged. The Scholars IV requirement may be achieved through a variety of options. For students in SOM, DSON, Harpur Psych ABA Track, and Watson (Engineering programs only); the Scholars IV requirement is met by specific degree requirements. SCHL427 is a zero credit course that will be graded as P/F, and must be completed as part of the Scholars Program requirements.

Responsibility for identifying an appropriate Scholars IV activity rests with each Scholar. This should be something planned from early on in your time at Binghamton University, but certainly no later than your third year, and should be completed in your fourth year or earlier.

OPTIONS FOR COMPLETING THE SCHOLARS IV REQUIREMENT:

1. **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).
2. **Double Degree:** Obtain a degree in two different schools/colleges (e.g., a degree from Harpur College and a degree from the School of Management)
3. **Department Honors:** Earn honors in the department of your major (check to see if your major has an honors program).
4. **Decker School of Nursing senior year clinical:** NURS 471
5. **Watson Senior Project** (engineering programs only, not CS); ISE 492, EECE 488, ME 494, or BE 451
6. **School of Management - Global Strategic Management Course:** MGMT 411
7. **Harpur Psych BA – ABA Track:** PSYC 494
8. **The Guthrie Scholars Premedical Internship: SCHL 396** An undergraduate medical residency program at Guthrie – Robert Packer Hospital
9. **Capstone Course option 1:** Complete a 400-level (or above) elective course that does not count towards your major requirements.
10. **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 that you must complete in addition to the course requirements. At least 40 hours of additional work, over and above the work necessary to complete the course, is required.
11. **Capstone Research, Project or Independent Study:** Under the guidance of a member of the Binghamton University faculty, complete a culminating project, research activity, or independent study. A minimum of 50 hours must be committed towards this activity.

V. Future SCHL 280 Course Offerings

Predicting which SCHL280 courses will be offered each semester or year is not possible due to the variables associated with faculty availability. Be assured that eight to ten courses will be offered each semester.

Winter and Summer sessions: No Scholars courses are typically offered during these sessions.

VI. Spring 2017 SCHL 280 Courses (and gen-eds)

- SCHL 280B, Applied Research Challenge - O
- SCHL 280D, Technology and Impact of Solar Energy – J
- SCHL 280G, The Psychology of Human Bodies – S, C
- SCHL 280M, Plastics: Boon and Bane – J
- SCHL 280L, Ghosts In American Culture - C
- SCHL 280T, Revolutions of the Heart - H, J
- SCHL 280U, Picturing the Universe: Science Facts and Fictions - O and N
- SCHL 280V**, Refugee Crisis in the Middle East – N, G, J
- SCHL280W, What is Mormonism? - N, J
- SCHL 280X, Dramas of Finance - G

****Permission of Instructor is required for SCHL280V prior to registration. See course description.**

SCHL 280B: Interdisciplinary Applied Research and Proof of Concept in Aviation

Course Instructors: Chad Nixon, Senior Vice President, McFarland Johnson, Inc ; Zachary Staff, Airport Planner, McFarland Johnson, Inc

Credit Hours: 4

Gen Ed designations:

O – Oral Communication

CRN: 21949

Course Time: TR 11:40 am – 1:05 pm

Course description:

Interdisciplinary Applied Research and Proof of Concept in Aviation. Work on a student applied-research team along with multiple Binghamton University professors and industry experts from regional airports, engineering and planning consultants, the Federal Aviation Administration (FAA), and other organizations as needed to identify and research a current challenge within the aviation industry. Prepare a team-written proof of concept as a proposed solution to the challenge. Final written team project will be submitted to a national competition sponsored by the FAA. One or more visits to a nearby airport with the team will be required. No knowledge of aviation and no technical background are necessary. Students from all disciplines are encouraged to enroll. Restricted to students enrolled in the Binghamton University Scholars Program. Prerequisites: SCHL127.

Instructor Biographies: Chad Nixon is Senior Vice President at McFarland Johnson (MJ), a consultancy providing financial and aviation planning, environmental, engineering, and construction inspection services for both private and public projects large and small. He brings tremendous energy to the company and is consistently sought out for his innovative problem solving skills. He leads the strategic growth of MJ's market sectors and provides oversight relative to new services, growth opportunities and industry trends. He has a highly diverse background that includes contract negotiations, airport operations management, and aviation planning. He has performed FAA and DOD airspace liaison duties in numerous countries including Malaysia, Thailand and Oman. His areas of aviation expertise include: airport management, aviation forecasting, economic analysis, airport negotiations, business planning, and project management. Mr. Nixon currently serves as Special Projects Manager on statewide and airport specific aviation planning projects.

Nixon received his MBA with a specialization in Aviation from Embry-Riddle Aeronautical University. He serves on numerous national, state and regional aviation committees and boards of directors including his role as Past-President of the New York Aviation Management Association and Board Member of the Northeast Chapter of the American Association of Airport Executives. Chad has a strong bond with his community through volunteerism and civic activities. He assists local aspiring entrepreneurs through his interaction with the Pre-Seed

Workshop and is credited with inventing the Airport Dynamic Analysis Tool, which automates the aviation planning process. He has also served as a Cub Scout leader, a student advisor at Binghamton University for several years to students engaged in the FAA's National Design Competition, and participates in several local charities and committees within his community.

Instructor Bio: Zachary Staff currently serves as an Airport Planner in the Binghamton, NY office of McFarland Johnson. He has completed many statewide and airport-specific aviation projects across the United States, including airport planning and financial analyses, airport master plans, environmental assessments, noise analyses, and grant management. Mr. Staff has a diverse planning background beyond aviation, including work in community planning and zoning analysis, traffic analysis, and agricultural planning. Mr. Staff also has a background in the use of geographic information systems, including the creation and analysis of large amounts of digital data.

Mr. Staff has received a Bachelor of Arts in Geography from the State University of New York, College at Geneseo, and a Master of Arts in Geography, with a concentration in Urban & Retail Planning, from Binghamton University. Mr. Staff is recognized as a certified planner by the American Institute of Certified Planners (AICP). He currently serves as President of the Board of Directors of Campus Pre-School & Early Childhood Center, Inc., and is a past member of the City of Binghamton Planning Commission. Mr. Staff is a proud homeowner in the City of Binghamton, where he resides with his wife, Betsy, their son and daughter, Hayden and Colbie, and their golden retriever, Rory. Mr. Staff is an avid fan of the New York Mets and the San Diego Chargers, and during basketball season he can be found at the Events Center watching the Bearcats with his son.

SCHL 280D, Technology and Impact of Solar Energy

Course Instructor: John Fillo, Special Assistant to the Dean of Watson

Credit Hours: 4

Gen Ed designations:

J - Joint Composition and Oral Communication

CRN: 20983

Course Time: TR 10:05 am – 11:30 am

Course Description: Advances in solar energy generation have begun to replace conventional fossil fuel energy sources. In the very near future, the costs of solar systems are expected to reach "grid parity" and will compete economically with other sources including wind and nuclear power. In this course, the technologies and the policies that led to these advances and the new challenges presented will be discussed. Students will consider the economic and environmental changes that will occur. Students will also have an opportunity to work with actual solar photovoltaic systems.

Instructor Bio: 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. Fillo is the former Associate Dean for Research and External affairs in the Watson School of Engineering and Applied Science at Binghamton University. He is currently Special Assistant to the Dean. Professor Fillo's main research interests include thermal fluid analysis, mathematical modeling, heat transfer in electronics and advanced technology.

SCHL 280G: The Psychology of Human Bodies

Course Instructor: Ann Merriwether, Instructor of Psychology and Human Development

Credit Hours: 4

Gen Ed designations:

S – Wellness

C - Composition

CRN: 20005

Course Time: TR 4:25 pm – 5:50 pm

Course description:

This course will provide students with an overview and understanding of the psychology of our bodies with a focus on reproductive health, ethnicity, sex and gender. During the semester, students will focus on engaging in critical analysis and thoughtful reflection in relation to the study of body, reproductive health, ethnicity, sex and gender. In this course, students will explore a range of topics including: body related health and reproductive issues in relation to ethnicity, economic status, gender, sex and sexual orientation. Particular focus will be paid to how bodies shape our development and world-view. Particular focus will be paid to African Americans and Asian Americans and the impact of gender on body and reproductive health. We will be reading: “Marginalized Reproduction: Ethnicity, Infertility and Reproductive Technologies to gain insight into these topics. Particular attention will be paid to gender identity and sexual orientation. We will have a number of readings on sexual orientation including one on modern prejudice. We will be also be reading “She’s Not There: A life in Two Genders” to gain insight into these topics. Prerequisite: Binghamton University Scholar, SCHL127.

Instructor Bio:

Ann Merriwether is a development psychologist with a split appointment in Psychology and Human Development. She teaches a number of large lecture class including “Introduction to Psychology”, “Developmental Psychology” and “Introduction to Theories in Human Development”. She also teaches seminars on gender and sexuality. Believe it or not one of her favorite classes to teach is the “Psychology of Death and Dying”. Her research interests focus on emergent adult sexuality. Dr Merriwether and her husband Andy (also a BU professor) have a farm in Vestal where they live with their alpacas, sheep, angora rabbits and two enormous dogs named Quack and Bear.

SCHL 280L: Ghosts in American Culture

Course Instructor: Elizabeth Tucker, Distinguished Professor of English

Credit Hours: 4

Gen Ed designations:

C - Composition

CRN: 29680

Course Time: TR 11:40 am – 1:05 pm

Course Description: We will analyze the significance of ghosts in American folklore and literature, with attention to haunted houses and other expressions of the uncanny. 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. Four five-page papers. Oral group presentation. Texts: Freud, "The Uncanny"; Gordon, *Ghostly Matters*; Bailey, *American Nightmares*; Jackson, *Haunting of Hill House*; Tucker, *Haunted Halls*. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio: Dr. Elizabeth Tucker, Distinguished 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.

SCHL 280M: Plastics: Boon and Bane

Course Instructor: Rebecca Kissling, Lecturer in Organic Chemistry

Credit Hours: 4

Gen Ed designations:

J – Joint Composition and Oral Communication

CRN: 29684

Course Time: W 5:50 pm – 8:50 pm

Course Description: Since the 1930s synthetic organic materials have become pervasive, a part of nearly every aspect of modern western culture. This course will explore man-made organic materials, broadly, plastics from their first appearance in manufacturing to our modern times, and plastic's impact on technical materials, our throw-away society and our environment. This course will feature readings, modern media, and outside speakers. Prerequisites: Enrolled in Binghamton University Scholars Program, SCHL127.

Instructor Bio:

I am an Instructor of Organic Chemistry at Binghamton University. I currently teach sophomore level organic courses and commit my free time to advising and fostering careers of science major undergraduates. I first set foot on the campus of, then Harpur College, in 1965 when my dad began his career here in the geology department. I earned my BS in Geology in 1984 from Binghamton University and worked as a geologist, in the area of optical mineralogy for over a decade in Kansas and Hawaii. When not engaged in outdoor pursuits, I attended UH-Manoa and broadened my horizons through numerous courses in chemistry and biology. I returned to the mainland and earned a PhD in Chemistry from UNC-Chapel Hill in 2001 in organocatalysis. My post-doctoral work at University of New Orleans focused on organometallic catalysis. On the home front, I share parenting of dogs and cats with my husband Steven and spend time hiking, running, cycling, needle crafts, gardening and digital image capture.

SCHL 280T: Revolutions of the Heart

Course Instructor: George Catalano, Distinguished Professor and Undergraduate Program Director, Department of Biomedical Engineering

Gen Ed designations:

H – Humanities

J - Joint Oral and Composition

Credit Hours: 4

CRN: 29725

Course Time: TR 10:05am – 11:30am

Course Description: Revolutions of the Heart: Gandhi, Day, Berrigan and Trudell. We all often ask what good can one person do? What is the sense of our small effort? Dorothy Day challenged us to lay one brick at a time, take one step at a time and be responsible for the action of the present moment. With each action we can in turn beg for an increase of love in our hearts that will vitalize and transform all our individual actions. She went on to say, “The greatest challenge of the day is: how to bring about a revolution of the heart, a revolution which has to start with each one of us?” This course will explore the idea of a revolution of the heart. We shall do this through a careful study of both the thoughts and actions of individuals who were such revolutionaries: Gandhi, Day, King, Berrigan and Trudell. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio:

Dr. George Catalano received his Ph.D in Aerospace Engineering from the University of Virginia. He is currently Professor of Bioengineering and former Faculty Master of the Apartment Communities at Binghamton University. He is the former Director of the Binghamton University Scholars Program. Dr. Catalano is the author or coauthor of several books including *Engineering and Society: Working Towards Social Justice*, *Engineering Ethics: Peace, Justice, and the Earth* (2006) and *Engineering, Poverty, and the Earth* (2007). He has been a professor at the US Military Academy, the Air Force Institute of Technology and others. He served as a Captain in the US Air Force and as a NASA Fellow. Dr. Catalano has over thirty archival journal articles in engineering science, engineering education and ethics, more than 80 reviewed conference proceedings, and over one hundred national and international conference presentations. He has served as Principal Investigator on over \$900,000 in funding, primarily from U.S. government agencies.

SCHL 280U: Picturing the Universe

Course Instructor: Joshua Reno, Assistant Professor of Anthropology

Gen Ed designations:

O – Oral Communications

N – Social Science

Credit Hours: 4

CRN: 29726

Course Time: TR 2:50pm – 4:15pm

Course Description: Picturing the Universe: Science Facts and Fictions. The universe is vast and mostly unexplored. Most of what is known has come through careful, deliberate astronomical observation from Earth. The photos, facts, and figures collected by astronomers over the centuries have contributed enormously to our understanding of physics and changed life on Earth, giving rise to what we call “modern science” in the process. But how we perceive and know the universe is shaped just as much by our imaginations as by our scientific instruments. Together, they help us picture the vast universe and the place of the Earth and humans within it, including our collective past and future, infinite possibility and cosmic destiny. In this course, we will investigate the many ways that people have pictured the universe and how their activities have shaped life down on Earth over the centuries and into the present day. Working with the Kopernik Observatory in Vestal, we will learn will learn amateur astronomy and astrophotography. We will also read and discuss modern fiction and astrobiology dealing with the origins of the universe and its darker corners, and watch and “play” more recent media that attempt to make these science facts and fictions meaningful in new ways. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio: Joshua Reno, is an Assistant Professor in the Anthropology Department at BU. He received his PhD in sociocultural anthropology from the University of Michigan in 2008, based on his in-depth research on Northern American landfills and the controversial waste trade between the US and Canada. He has published articles on these topics, as well as on renewable energy, environmental governance and language and communication. With Catherine Alexander, he co-edited *Economies of Recycling* (2012), which examines, on a global scale, the profits and perils associated with transforming waste into a resource. He has taught courses on climate change, human rights, digital culture, and the social study of science and technology.

SCHL 280V: Refugee Crisis in the Middle East

PERMISSION OF INSTRUCTOR IS REQUIRED for this course:

Please seek permission from the instructor NOW. Do not wait until registration opens.

For permission, contact: Professor Kent Schull, kschull@binghamton.edu

Course Instructor: Dr. Kent F Schull, Associate Professor of Ottoman and Modern Middle East History

Gen Ed designations:

J – Join Oral Communication and Composition

N – Social Science

G – Global Interdependency

Credit Hours: 4

CRN: 29727

Course Time: MW 9:40 am – 11:05 am

Course Description: The Refugee Crisis in the Middle East. Currently there are over 10 million refugees and displaced persons from the Syria, Iraq, and Libya in surrounding countries. This is just a part of over 65 million refugees and displaced persons worldwide representing the greatest refugee crisis since World War II. This course investigates the current refugee crisis in the Middle East including its origins, development, implications for, and effects on those involved and the world around it. Not only does this course look at the historical background of the crisis, but also the efforts and challenges associated with dealing with so many people displaced by war, civil unrest, persecution, and economic ruin. This crisis not only severely affects the Middle East, but also Europe, North America, and the entire world as state, international, and non-governmental organizations (NGOs) cooperate, compete, and fight over what ought to be done. This course also investigates issues of human rights, international law, humanitarian aid, immigration, what it means to be a refugee, public health and security concerns, and efforts facilitating and hindering aid. Not only will students learn about these various issues in depth, but they will also experience first-hand the challenges and issues related to this refugee crisis through a two week excursion to Greece where they will work with NGOs, the local Greek Community and state by volunteering in a refugee shelter on the Greek Island of Leros in the Aegean Sea from May 22-June 5, 2017. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio: Kent Schull is an associate professor of Ottoman and Middle East history at Binghamton University. He's earned graduate degrees from the University of Oxford and UCLA. As a Fulbright scholar he spent two years with his family studying in Turkey and loves its people, culture, language, and, especially, its food! He's been at Binghamton University for three years now and loves interacting with its excellent and highly motivated students. His

regularly taught courses include: the Israeli-Palestinian Conflict, World War I and the Middle East, the Ottoman Empire, the 20th Century Middle East, and the Islamic World.

Additional Information:

To apply to register for Scholars 280V: Refugee Crisis in the Middle East, please visit

http://binghamton-oip.terradotta.com/index.cfm?FuseAction=Programs.ViewProgram&Program_ID=10089

All questions regarding the application should be directed to Kerry Stamp, Associate Director for Study Abroad, Office of International Programs, at kstamp@binghamton.edu .

All questions regarding the course and registration process can be directed to Professor Kent Schull, Department of History, at kschull@binghamton.edu .

NOTE: **You must complete the application on the website above to register for the class** and go on the trip. Note the additional cost and required deposit. There will be no exceptions. So, even if you aren't sure yet if you can go, you should fill out the application now. The application is non-binding.

SCHL 280W: What is Mormonism?

Course Instructor: Dr. Kent F Schull, Associate Professor of Ottoman and Modern Middle East History

Gen Ed designations:

J – Join Oral Communications and Composition

N – Social Science

Credit Hours: 4

CRN: 29728

Course Time: MW 2:20 pm – 3:45 pm

Course Description: What is Mormonism? Currently there are over 15 million Mormons (members of the Church of Jesus Christ of Latter-day Saints) in the world. It is one of the fastest growing religions with its missionary force of over 50,000 young men, women, and senior members proselytizing world-wide. Mormonism is known for its controversial beliefs and ceremonies (Polygamy, Adam-God Theory, Dietary Restrictions, Temple Marriage, Baptisms for the Dead, Living Prophets & Apostles, New Scripture, Book of Mormon, Godhood for Members, Patriarchy, Personal Revelation, Pioneer Heritage, etc.), and exclusive claims as the one true religion that holds all the truth to eternal life. Drawing on approaches to religious and American studies this course academically and critically investigates the origins, development, doctrines, practices, and controversy surrounding the LDS Church and its members from the 1820s in Upstate New York till today as it attempts to be a mainstream global Christian church. Included in this course are investigations regarding the church's relationship with persons of color, women and homosexuality in the church, Mormonism's relationship to Christianity, Judaism, and Islam, and issues dealing with its expansion worldwide. Additionally, students will visit key historic sites critical to the early development of the LDS Church in Palmyra, NY and Susquehanna, PA. Course assessment includes short response papers to assigned weekly readings, two oral presentations, and a research paper on a topic related to the course chosen in consultation with the instructor. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio: Kent Schull is an associate professor of Ottoman and Middle East history at Binghamton University. He's earned graduate degrees from the University of Oxford and UCLA. As a Fulbright scholar he spent two years with his family studying in Turkey and loves its people, culture, language, and, especially, its food! He's been at Binghamton University for three years now and loves interacting with its excellent and highly motivated students. His regularly taught courses include: the Israeli-Palestinian Conflict, World War I and the Middle East, the Ottoman Empire, the 20th Century Middle East, and the Islamic World.

SCHL 280X: Dramas of Finance

Course Instructor: Douglas Holmes, Professor of Anthropology

Gen Ed designations:

G – Global Interdependency

Credit Hours: 4

CRN: 29729

Course Time: T 6:00 pm – 9:00 pm

Course Description: Dramas of Finance. In this course we will examine worlds of finance and the people who inhabit them. We will explore how finance—from hedge funds to central banks—has been portrayed in film, literature, and the social sciences. We will read contemporary accounts of financial innovations among traders in London, Chicago, and Tokyo as well as examine how policymakers regulate financial markets in Sweden, the United Kingdom, New Zealand, and Germany. We will also read literary depictions of finance by authors ranging from Anthony Trollope, *The Way We Live Now*, to Michael Lewis, *The Big Short*. We will screen a series of films, such as *The Bonfire of the Vanities* and *The Wolf of Wall Street* that depict financial players cinematically. The primary assignment of the course will be to design a project to study how financial markets succeed or fail at addressing abiding human concerns. Or, alternatively, to write a screenplay exploring how finance animates our daily lives. In each of our class meetings we will devote considerable time to the discussion and the refinement of our respective projects, exploring how we can study finance from diverse analytical and disciplinary perspectives. Prerequisites: enrolled in the Binghamton University Scholars Program, SCHL127. Four credit hours.

Instructor Bio: I was among the first American anthropologists to focus their research careers on Europe. I have studied the dynamics of rural livelihood in Northeast Italy, the constitutional negotiations unfolding in the political precincts of Brussels and Strasbourg, and the urban estrangements and dislocations punctuating life in the East End of London. For two decades I have explored the issues surrounding the rise of what we term—far too simplistically—the “extreme right” or “nationalist right.” I have argued that these radical insurgencies must be understood as fascism of and in our time. I am also conducting field research on the operation of five central banks investigating how the personnel of these institutions employ communications as a fundamental—though controversial—tool to manage the global economy and financial system. I have published three major books: *Cultural Disenchantments: Worker Peasantries in Northeast Italy* (Princeton), *Integral Europe: Fast-Capitalism, Multiculturalism, and Neofascism* (Princeton); and *Economy of Works: Communicative Imperatives in Central Banks* (Chicago).