# UB Undergraduate Experiential Learning Opportunities Database

(Internship/Practicum, Research, Independent Study and Special Project)

Updated – August 2016

<table>
<thead>
<tr>
<th>Major/Program</th>
<th>Internship Eligibility</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td><strong>MAE 496 Engineering Internship</strong>&lt;br&gt;Credits: 1-3&lt;br&gt;Semester(s): Fall, Spring&lt;br&gt;Provides experience in real-world engineering problems for senior mechanical and aerospace students. Assigns projects from local industry. Normally requires students to spend eight hours weekly in an engineering office. Students must present written and oral reports. Students interested in an internship or co-op experience should also consider the <strong>EAS 396 and EAS 496</strong> sequence.&lt;br&gt;Other Requisites: Mechanical Or Aerospace Engineering Majors Only.</td>
<td>Paul E. DesJardin&lt;br&gt;Director of Undergraduate Studies&lt;br&gt;336 Jarvis Hall&lt;br&gt;(716) 645-1467&lt;br&gt;<a href="mailto:ped3@buffalo.edu">ped3@buffalo.edu</a>&lt;br&gt;Contact Faculty/Instructor/Department for more information. Instructors for MAE 496: J R, Khan.</td>
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<td><strong>MAE 498 Undergraduate Research &amp; Creative Activity</strong>&lt;br&gt;Credits: 1-3&lt;br&gt;Semester(s): Fall and Spring&lt;br&gt;Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting. Arrangements must be made with a specific faculty member before registration.&lt;br&gt;Other Requisites: Mechanical Or Aerospace Engineering Majors Only.</td>
<td>Instructors for MAE 498: Armstrong, Chung, Tarkesh, Yoo, Majji, Karami and khan</td>
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<td><strong>MAE 499 Independent Study in Mechanical Engineering</strong>&lt;br&gt;Credits: 1-12&lt;br&gt;Semester(s): Fall and Spring&lt;br&gt;Independent engineering projects or reading courses may be arranged with individual faculty members. Students must make arrangements with a specific faculty member for work on a particular topic before registering.&lt;br&gt;Other Requisites: Mechanical Or Aerospace Engineering Majors Only.</td>
<td>Instructors for MAE 499: Baier, Bauman, Behdad, Borazjani, Chung, Crassidis, Dargush, Das, DesJardin, Tarkesh, Felske, Hall, Hoffmann, Hua, Karami, Khan, Krovi, Madnia, Majji, Meng, Mook, Patra, Olewnik, Rai, Ringuette, Salac, Singla, Wetherhold, Wodo, Yoo</td>
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<tr>
<td>African American Studies</td>
<td><strong>AAS 496 Community Internship</strong>&lt;br&gt;Credits: 1-5&lt;br&gt;Semester(s): Spring&lt;br&gt;Assigns to students a research project with a community-based organization, agency, or center. Much time is spent studying how the agency structures and disseminates its services. Provision for effective research enables the student to participate in the black community and observe the</td>
<td>Keith P. Griffler&lt;br&gt;Associate Professor -Transnational Studies&lt;br&gt;732 Clemens Hall&lt;br&gt;(716) 645-0802&lt;br&gt;<a href="mailto:griffler@buffalo.edu">griffler@buffalo.edu</a></td>
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**African American Studies**

**AAS 496 Community Internship**

Credits: 1-5

Semester(s): Spring

Assigns to students a research project with a community-based organization, agency, or center. Much time is spent studying how the agency structures and disseminates its services. Provision for effective research enables the student to participate in the black community and observe the

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**MAE 496 Engineering Internship**

Credits: 1-3

Semester(s): Fall, Spring

Provides experience in real-world engineering problems for senior mechanical and aerospace students. Assigns projects from local industry. Normally requires students to spend eight hours weekly in an engineering office. Students must present written and oral reports. Students interested in an internship or co-op experience should also consider the **EAS 396 and EAS 496** sequence.

Other Requisites: Mechanical Or Aerospace Engineering Majors Only.

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**MAE 498 Undergraduate Research & Creative Activity**

Credits: 1-3

Semester(s): Fall and Spring

Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting. Arrangements must be made with a specific faculty member before registration.

Other Requisites: Mechanical Or Aerospace Engineering Majors Only.

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**MAE 499 Independent Study in Mechanical Engineering**

Credits: 1-12

Semester(s): Fall and Spring

Independent engineering projects or reading courses may be arranged with individual faculty members. Students must make arrangements with a specific faculty member for work on a particular topic before registering.

Other Requisites: Mechanical Or Aerospace Engineering Majors Only.
<table>
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<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester(s) Typically Offered</th>
<th>Grading</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>AAS 499</td>
<td>Independent Study</td>
<td>1–4</td>
<td>Fall, Spring</td>
<td>Graded (GRD)</td>
<td>Carter, Griffler, Lulat, Pappas, Williams</td>
</tr>
<tr>
<td>AMS 496</td>
<td>Internship</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
<td>Graded (GRD)</td>
<td>Barbara Wejnert</td>
</tr>
<tr>
<td>APY 496</td>
<td>Internship</td>
<td>1-6</td>
<td>Fall, Spring, Summer</td>
<td>Graded (GRD)</td>
<td>Beth Wallace</td>
</tr>
<tr>
<td>APY 499</td>
<td>Independent Study and Research</td>
<td>1-8</td>
<td>Fall, Spring, Summer</td>
<td>Graded (GRD)</td>
<td>Frederick</td>
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<tr>
<td>AP 496</td>
<td>Architecture and Urban Planning Practicum</td>
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<td></td>
<td>RJ Multari</td>
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<tr>
<td>Credits: 1 - 6</td>
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<td>Semester(s): Fall, Spring and Summer</td>
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<td>Allows students to gain exposure and experience with a host agency as well as increase their understanding in particular areas of architecture, environmental design, and urban planning. Advanced permission, agreement with the host agency, and a required final written report must be approved by School of Architecture and Planning Advisement.</td>
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**ARC 496 Community Design Service**

Matches students with community organizations in need of architecture-related services. Students do hands-on work serving community needs and pursue learning experiences with faculty. May be offered on an intermittent basis.

Credits: 2-7

Semester(s) Typically Offered: Spring

Grading: Graded (GRD)

Pre-Requisites: Architecture major / minor only and permission of instructor

**AED 499 Independent Study**

Credits: 1-8

Designed to add depth and breadth to a student's understanding of architecture or environmental design and urban planning. Students electing this course must be accepted for work on a specific topic by a member of the School of Architecture and Planning's faculty, and must have the approval of School of Architecture and Planning Advisement.

Art

Listed under Visual Studies

Art History

Listed under Visual Studies

**Asian Studies**

**JPN 496 Internship Practicum**

Hands-on experience in language and cultural studies at institutions and organizations in Western New York and/or nationwide.

Credits: 3

Semester(s) Typically Offered: Fall, Spring

Grading: Graded

**KOR 496 Internship Practicum**

Hands-on experience in language and cultural studies at institutions and organizations in Western New York and/or nationwide.

Credits: 1-8

Semester(s) Typically Offered: Fall, Spring

Grading: Graded

**Athletics**

**ATH 496 Recreation Internship**

<table>
<thead>
<tr>
<th>114 Diefendorf Hall</th>
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<tbody>
<tr>
<td>(716) 829-5900</td>
</tr>
<tr>
<td><a href="mailto:multari@ap.buffalo.edu">multari@ap.buffalo.edu</a></td>
</tr>
</tbody>
</table>

Instructor for ARC 496 – Russell

**Nona Carter**

Undergraduate Advisor

729 Clemens Hall

716-645-0761

nonacart@buffalo.edu

**OR**

Caroline Funk

Senior Staff Assistant

712 Clemens Hall

716-645-0763

cfunk@buffalo.edu

Instructor for JPN: Shimojo

Instructor for KOR: Lee
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| **BCH 498 Undergraduate Research** | Under the direction of faculty, the course consists of an original investigative project involving library and lab work. Open to majors as a research project. Requires one poster presentation. Students must complete 8 credit hours. | Alfred Ponticelli  
Associate Professor  
649 Biomedical Building  
(716) 829-2473  
asp@buffalo.edu                                                                 |
| **BCH 499 Independent Study** | For students having specific academic interests or objectives; requires a department faculty sponsor before preregistration.                                                                                   | Alfred Ponticelli  
Associate Professor  
649 Biomedical Building  
(716) 829-2473  
asp@buffalo.edu                                                                 |
| **BIO 497 Honors in Biology** | Research experience during the senior year. Enrollees are sponsored by a member of the faculty of the Department of Biological Sciences. Upon completion of the requirements of an honors research project, recognition is noted on the student's transcript. | Denise Ferkey  
Director of Undergraduate Affairs  
109 Cooke Hall  
716-645-4929  
dmferkey@buffalo.edu                                                                 |
| **BIO 498 Undergraduate Research** | Students collaborate with faculty research mentors on an ongoing faculty research project or conduct independent research under the guidance of a faculty member.        | Alfred Ponticelli  
Associate Professor  
649 Biomedical Building  
(716) 829-2473  
asp@buffalo.edu                                                                 |
| **BIO 499 Independent Study** |                                                                                                                                                                                                              | Alfred Ponticelli  
Associate Professor  
649 Biomedical Building  
(716) 829-2473  
asp@buffalo.edu                                                                 |
<table>
<thead>
<tr>
<th>Component</th>
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<tbody>
<tr>
<td><strong>Biomedical Sciences</strong></td>
<td><strong>BMS 496 Biomedical Sciences Internships</strong>&lt;br&gt;Exposes students to a nonacademic environment within which to apply the knowledge gained via traditional coursework. Students have the opportunity to work with a community, government, or private agency as a student intern. This volunteer, credit-bearing experience gives students the opportunity to experience specific job settings. Students may opt for biomedical sciences work sites whose primary focus is clinical, business, or research. &lt;br&gt;Credits: 1-4 &lt;br&gt;Semester(s) Typically Offered: Fall, Spring, Summer &lt;br&gt;Grading: Pass/Not Pass</td>
</tr>
<tr>
<td><strong>Biotechnology</strong></td>
<td><strong>MT 496 : Internship In Biotechnology</strong>&lt;br&gt;A one-semester, variable credit internship at a biotechnology site. Includes participation in one or more projects selected to integrate the materials learned in academic courses. Placement is accomplished by the program director, based on the coursework completed and interest of the student. Generally requires an interview at the biotechnology site before placement. Registration in MT 496 is limited to accepted majors of BTE only. &lt;br&gt;Credits: 1-12 &lt;br&gt;Semester(s) Typically Offered: Fall, Spring, Summer &lt;br&gt;Grading: Graded</td>
</tr>
<tr>
<td><strong>Business Administration</strong></td>
<td>Listed under Management (School of) Credit-Bearing Internship Program</td>
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<tr>
<td><strong>Career Services</strong></td>
<td><strong>UBE 496 Career Peer Advisors</strong>&lt;br&gt;Credits: 1-3 &lt;br&gt;Semester: Fall &lt;br&gt;Upperclassman standing preferred.</td>
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</table>
Students work as paraprofessionals in the office of Career Services. They receive in-depth training in order to provide career-related assistance to students and campus groups. Students increase their understanding of particular areas of interest including leadership, diversity, health and wellness, career planning, and more through educational and work experience in various Student Affairs offices.

| Chemical Engineering | Co-op information listed under Engineering and Applied Sciences (School of).

**CE 496 Internship/Practicum**

Hands-on experience in the field. Problems vary from year to year, and may include chemical process studies, engineering materials studies, or computer-based analysis of specific chemical engineering problems. Internship assignments follow student preferences where possible and require consent of a faculty members who guide the work. Typically, students are required to spend approximately ten unpaid hours per week at an industrial site. Grading is based in part on written and oral reports that are required upon completion of the internship.

- Credits: 1-3
- Semester(s) Typically Offered: Fall, Spring, Summer
- Grading: Graded
- Pre-Requisites: Permission of instructor and director of undergraduate studies; Approved Chemical Engineering Majors Only

**CE 499 Independent Study**

Students should be accepted for work on a specific topic by a member of the teaching staff of the chemical engineering department.

- Credits: 1-9
- Semester(s) Typically Offered: Fall, Spring, Summer
- Grading: Graded (GRD)
- Pre-Requisites: Permission of instructor and director of undergraduate studies; Approved Chemical Engineering Majors Only

| Chemistry | CHE 498 Senior Research

Supervised research under the direction of a chemistry faculty member. May be taken more than one semester.

- Credits: 1-3
- Semester(s) Typically Offered: Fall, Spring, Summer
- Grading: Graded (GRD)
- Pre-Requisites: Senior or Junior standing in the Department and Permission of Instructor

<table>
<thead>
<tr>
<th>Robert Orrange</th>
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<tbody>
<tr>
<td>Associate Director</td>
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<tr>
<td>259 Capen Hall</td>
</tr>
<tr>
<td>716-645-2231</td>
</tr>
<tr>
<td><a href="mailto:rorange@buffalo.edu">rorange@buffalo.edu</a></td>
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<th>Blaine Pfeifer</th>
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<tr>
<td>Associate Professor</td>
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<tr>
<td>716-645-1198</td>
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<td><a href="mailto:blaine@buffalo.edu">blaine@buffalo.edu</a></td>
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<th>Jerome Keister</th>
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<tbody>
<tr>
<td>Director of Undergraduate studies</td>
</tr>
<tr>
<td>562 Natural Sciences Complex</td>
</tr>
<tr>
<td>716-645-4205</td>
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<tr>
<td><a href="mailto:keister@buffalo.edu">keister@buffalo.edu</a></td>
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</tbody>
</table>

Instructors for CE 496: Pfeifer


Instructors for CHE 498: Aga, Akimov, Atilla, Atwood, Autschbach, Benedict, Bright, Chemler, Churchill, Colon, Cook, Detty, Diver, Gong, Gardella,
| Civil Engineering | Co-op information listed under Engineering and Applied Sciences (School of). | Igor Jankovic  
Director of Undergraduate Studies  
207 Jarvis Hall  
(716) 645-4013  
ijankovi@buffalo.edu  
Instructors for CIE 498:  
Ahmad, Aref, Atkinson, Basaran, Anastasopoulos, Bruneau, Constantinou, Dai, He, Human, Jankivoc, Jensen, Okumus, Rabideau, Rande, Sadek, Sett, Shim Snyder, Tessari, Wang |
|------------------|--------------------------------------------------------------------------------|---|
| **CIE 498 Undergraduate Research and Creative Activity**  
Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting.  
Credits: 1-3  
Semester(s) Typically Offered: Fall, Spring, Summer  
Grading: Graded (GRD)  
Other Requisites: CIE 498 Requisite: Civil, Structural & Environmental Engineering Majors Only |  
Carolyn Higbie  
Director of Internships  
359 Baldy Hall  
(716) 645-1503  
vwm@buffalo.edu  
Instructor: Neil Coffee |
| **CIE 499 Independent Study**  
Students electing this course should be accepted for work on a special topic by a member of the teaching staff. Special forms are available in the department office.  
Credits: 1-12  
Semester(s) Typically Offered: Fall, Spring, Summer  
Grading: Graded (GRD)  
Other Requisites: CIE 499 Requisite: Civil, Structural & Environmental Engineering Majors Only |  
Vivian Williams  
Director of Internships  
359 Baldy Hall  
(716) 645-1503  
vwm@buffalo.edu |
| **CL 498 Undergraduate Research**  
Credits: 1-3  
Semester(s) Typically Offered: Fall, Spring  
Grading: Graded (A-F)  
Students collaborate with faculty research mentors on an ongoing faculty research project or conduct independent research under the guidance of a faculty member. |  
Carolyn Higbie  
Director of Undergraduate Studies  
Director of Internships  
338 Filmore Academic Center  
(716) 645-2154  
chigbie@buffalo.edu |
| **COM 496 Internships in Communication**  
Prerequisites: Internship credit is available to majors in the Department of Communication during their senior year or during the summer preceding. Students must be a Communication major who has completed 90 credits and has earned a grade point average of 2.0 at the University and carries a 2.5 grade point average in the major. Students should plan your internship with the Director of Internships prior to registering for the course. Paid internships must be approved by petition in advance. |  
Vivian Williams  
Director of Internships  
359 Baldy Hall  
(716) 645-1503  
vwm@buffalo.edu |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Requirements</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 499</td>
<td>Independent Study</td>
<td>1-4</td>
<td>Involves development of an individual project of inquiry into an area of particular relevance to student interest within the field of communication. Graded pass/fail.</td>
<td>Instructor for COM 496: Vivian Williams</td>
</tr>
<tr>
<td>CSE 496</td>
<td>Internship</td>
<td>1-5</td>
<td>Field experience working on a computer science project in a real-world setting under the joint direction of a supervisor from industry and a faculty advisor from the Department of Computer Science and Engineering. Projects selected should integrate the material learned in academic courses. Upon completing the internship the student is expected to have fulfilled an internship contract. Only S/U grades are given (therefore, internships may not be used to satisfy requirements for the BA or BS.) No more than 5 credit hours of CSE 498 may be taken. Offered every semester.</td>
<td>Donna Grant Undergraduate Academic Advisor 338R Davis Hall 716-645-4758 <a href="mailto:Dmgrant3@buffalo.edu">Dmgrant3@buffalo.edu</a></td>
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<td>Semester(s) Typically Offered: Fall, Spring, Summer</td>
<td>Instructor for CSE 496: Upadhyaya</td>
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<td>Grading: Pass/Not Pass</td>
<td>Instructors for CSE 498: Schindler, Alphonce, Upadhyaya, Bianco and Ramamurthy, Schindler, Gao, Challen,</td>
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<td>Pre-Requisites: Accepted CSE major and personal interview with an adviser in computer science and engineering</td>
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<td>CSE 498 Undergraduate Research and Creative Activity</td>
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<td>Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting. (May not be used to satisfy the requirements for the BA or BS.) Permission of instructor required.</td>
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<td>CSE 499 Independent Study</td>
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<td>1-4</td>
<td>Credits: 1 - 4</td>
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<td>Semester(s): Fall, Spring</td>
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<td>Prerequisites: permission of instructor, preferably during the previous semester</td>
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<td>Independent study in an area of computer science in which the student is particularly interested. (May not be used to satisfy the requirements for the BA or BS.) Independent study is tailored towards special projects working independently with the faculty. (May not be used to satisfy the requirements for the BA or BS.) Permission of instructor required.</td>
<td></td>
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For a list of instructors for CSE 499 visit: http://undergradcatalog.buffalo.edu/courses/?q=cse%20499
| Cora P. Maloney College Public Service Internship Program | **CPM 496 Internship**  
Credits: 1 – 12  
Prerequisites: Junior or senior status.  
The Public Service Internship encourages active citizenship by allowing students to gain direct exposure to and practical work experience from, a wide range of diverse public and private agency assignments. Students develop valuable leadership skills while learning about the workings of, and making meaningful contributions to, the work of the organization. Students electing this course should be accepted for work on a special topic by a member of the teaching staff. Special forms are available in the department office.  
| Cathleen Morreale  
PSIP Program Coordinator  
111 Norton – North Campus  
(716) 645-5593  
cwalther@buffalo.edu  
http://cpmc.buffalo.edu/cpmc/index.php |  

| Dance | **THD 496 Internship - Dance Teaching**  
Credits: 1 – 3  
**Semester(s) Typically Offered:** Fall, Spring  
Gives qualified students experience as teaching assistants or teaching interns.  
**THD 499 Independent Study**  
Credits: 1 - 4  
Involves independent study at the undergraduate level.  
| Katie Mallinson  
Undergraduate Advisor  
285 Alumni Arena  
(716) 645-6318  
kamallin@buffalo.edu  
Instructors for THD 496:  
Fornarola, Crehan, Lichtenberger, Georger, Ralabate, Aceto, Navarro, Burnidge, Hain, Ring  
Instructors for THD 499:  
Burnidge, Fornarola, Lichtenberger, Crehan, Ralabate, Hain, Aceto  
|  

| Economics | **ECO 496 Internship in Economics**  
Students arrange an internship in the private or public sector. As long as this position has a strong economics content, the student can apply to the director of undergraduate studies in economics for internship credit. Application must be made in advance and must be approved by the director of undergraduate studies.  
Credits: 3  
**Semester(s) Typically Offered:** Fall, Spring  
Grading:  
Pre-Requisites: **ECO 405** and **ECO 407** and permission of instructor.  
| Zhiqiang Liu  
Director of Undergraduate Studies  
Associate Professor of Economics  
445 Fronczak Hall  
(716) 645-8688  
zqliu@buffalo.edu  
Instructor: Zhiqiang Liu  
http://www.economics.buffalo.edu/undergraduate/internship/ |  

| Electrical Engineering | **Co-op information listed under Engineering and Applied Sciences (School of). EE 496 Internship**  
The content of this course is variable and therefore it is repeatable for credit. The University Grade Repeat Policy does not apply. Requires approval and registration by department office.  
Credits: 1-3  
**Semester(s) Typically Offered:** Summer  
Grading: Graded (GRD)  
Pre-Requisites: Permission of Instructor; Approved Electrical Engineering Majors Only  
| Andrew Olewnik  
Director of Experiential learning programs  
410 Bonner Hall  
716-645-2630  
Olewnik@buffalo.edu |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>EE 498</td>
<td>Undergraduate Research and Creative Activity</td>
<td>Burke, Meduri</td>
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<td>EE 499</td>
<td>Independent Study</td>
<td>Litchinitser, Zirnheld, Mastronarde, Jornet Montana</td>
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<tr>
<td>EAS 496</td>
<td>Co-Op</td>
<td>Kerry Collins-Gross Assistant Dean</td>
</tr>
<tr>
<td>ENG 496</td>
<td>Writing Internship</td>
<td>Steven Miller Director of Undergraduate Studies</td>
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<tr>
<td>ENG 498</td>
<td>Undergraduate Research Assistance</td>
<td>Steven Miller Director of Undergraduate Studies</td>
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<tr>
<td>ENG 499</td>
<td>Independent Study</td>
<td>Steven Miller Director of Undergraduate Studies</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>PD 496</td>
<td>Environmental Design Internship</td>
<td>2-3</td>
</tr>
<tr>
<td>END 498</td>
<td>Research Projects in Environmental Design</td>
<td>3</td>
</tr>
<tr>
<td>PD 499</td>
<td>Independent Study</td>
<td>1 – 6</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>Co-op information listed under Engineering and Applied Sciences (School of).</td>
<td></td>
</tr>
<tr>
<td>Environmental Studies</td>
<td>Listed under Social Sciences Interdisciplinary Program.</td>
<td></td>
</tr>
<tr>
<td>ES 429</td>
<td>Internship</td>
<td>12</td>
</tr>
<tr>
<td>ES 496</td>
<td>Practicum</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Course Sequence</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
<td></td>
</tr>
</tbody>
</table>
| **ES 499 Independent Study** | Credits: 1 – 4  
Semester(s) Typically Offered: Fall, Spring, Summer  
Offers the student a unique educational experience not covered by existing formal courses. This may include library research, laboratory projects, learning new techniques, or participating in ongoing projects. |
| **ES 496 Internship/Practicum** | Credits: 1 – 6  
Hands-on experience in language and cultural studies at institutions and community organizations in the Western New York area. |
| **FR 498 Undergraduate Research and Creative Activity** | Credits: 1 – 6  
Students collaborate with faculty research mentors on an ongoing faculty research project or conduct independent research under the guidance of a faculty member. |
| **FR 499 Independent Study** | Credits: 1 – 6  
Prerequisites: FR 211-FR 212, or permission of instructor  
Students who have demonstrated the ability to perform upper-level coursework may, on occasion, wish to research a topic not available through regular course offerings. Such students may, with permission of a supervising faculty member and the director of undergraduate studies, enroll in FR 499. |
| **GEO 496 Geographic Internship** | Credits: 3  
For advanced students. Involves a work opportunity in a local governmental agency or firm. See the director of undergraduate studies for more information. |
| **GLY 498 Undergraduate Research** | Credits: 1 - 3  
Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting. |
| **GLY 499 Independent Study** | Credits: 1 – 6  
For a list of Instructors for GLY 49 visit: [http://undergrad-](http://undergrad-catalog.buffalo.edu/courses/?q=es%20496) |

**Prerequisites:** ANA 407, ES 200, ES 310, ES 380

Provides an opportunity for the student to gain some practical experience in a field setting. Sites are selected based on the student's career expectations. Arrangements must be made in conjunction with the clinical advisors on faculty.

**Instructor for ES 499:** Fisher, Epstein, White, Gosselin, farkas, Wilson, Personius, Hostler, Temple, Johnson, Wersinger, Schlader

**Christian Flaugh**  
Director of Undergraduate Studies  
910 Clemens Hall  
716-645-0879  
cflaugh@buffalo.edu

**Peter Rogerson**  
Director of Undergraduate Studies  
106 Wilkeson Quad  
(716) 645-0483  
rogerson@acsu.buffalo.edu

**Jason Briner**  
Director of Undergraduate Studies  
410 Hochstetter  
716-645-4326  
jbriner@buffalo.edu

**For a list of Instructors for GLY 49 visit:** [http://undergrad-](http://undergrad-catalog.buffalo.edu/courses/?q=es%20496)
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester(s)</th>
<th>Description</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 496 Internship/Practicum</td>
<td>3</td>
<td>Fall and Spring</td>
<td>Selection and study of topics not offered as regular courses.</td>
<td>Robert Hoeing (Director of Undergraduate Studies)</td>
</tr>
<tr>
<td>GER 498 Undergraduate Research</td>
<td>1-8</td>
<td>Fall and Spring</td>
<td>Students collaborate with faculty research mentors on an ongoing project or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry-based learning opportunity and engages them as active learners in a research setting.</td>
<td>Instructors for GER 496: Fertig and Hoeing.</td>
</tr>
<tr>
<td>GER 499 Independent Study</td>
<td>1-16</td>
<td></td>
<td>Allows independent and intensive research on a selected topic in German studies.</td>
<td>Instructors for GER 499: Fertig and Hoeing.</td>
</tr>
<tr>
<td>GGS 496 Women's Studies Internship</td>
<td>1-16</td>
<td>Fall and Spring</td>
<td>Provides an opportunity for majors to put into practice feminist theories and concepts developed in their coursework. In addition to valuable experiential learning, an internship can be used as the first step towards a career, an excellent addition to a resume, and a source for job contacts and future references. Internships are available, for example, at Planned Parenthood, Erie County Commission of the Status of Women, Everywoman Opportunity Center, Inc., or in an area of the student's major concentration and interest. Department registration required. Permission of the internship and advisor required.</td>
<td>Kathryn Manganaro (Undergraduate Secretary)</td>
</tr>
<tr>
<td>GGS 498 Undergraduate Research and Creative Activity</td>
<td>3</td>
<td>Fall and Spring</td>
<td>Students collaborate with faculty research mentors on an ongoing project in a faculty members' laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry-based learning opportunity and engages them as active learners in a research setting. Students will choose someone whose area of expertise is most suited to the student's interests, and student should discuss the possibility of working together prior to the semester.</td>
<td>Instructors for GGS 498: Weinert, Thomas, Simmons, Varnado, Winter, Williams, McCarthy.</td>
</tr>
<tr>
<td>GGS 499 Independent Study</td>
<td>1-16</td>
<td></td>
<td></td>
<td>Instructors for GGS 499: Weinert, Thomas, Simmons, Varnado, Winter, Williams, McCarthy.</td>
</tr>
</tbody>
</table>
## Health and Human Services
Listed under Social Sciences Interdisciplinary.

### History

**HIS 496 Public History Internship**  
Credits: 3  
Students learn to connect their historical studies with the world outside the academy by doing an internship at a historical site or museum. Students must arrange the internship themselves. The internship site must have a strong connection to history; some local examples include the Buffalo and Erie County Historical Society, the Amherst Museum, Old Fort Niagara, and the Theodore Roosevelt Inaugural site. Students register for this course through the History Department's Director of Undergraduate Studies.

**HIS 498 Undergraduate Research**  
Credits: 3  
Involves a research project arranged with and carried out under the guidance of a faculty member.

**HIS 499 Independent Study**  
Credits: 1-15  
Course topic and requirements arranged in consultation with instructor. Except in special circumstances, this course cannot be used to satisfy the department's seminar requirement.

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**Industrial Engineering**  
Co-op information listed under Engineering and Applied Sciences (School of).

**IE 496 Senior Capstone Internship**  
Credits: 3  
Semester(s): Spring  
Prerequisites: Senior standing in Industrial engineering (all required 300 level IE courses are prerequisites)  
A field experience working on an industrial engineering project in a manufacturing plant, hospital, library, police department, or similar location under the joint direction of a preceptor from industry and a faculty advisor. Projects are selected that integrate the material learned in academic courses. Requires a written report and an oral presentation.

**IE 498 Undergraduate Research**  
Credits: 1 - 3  
Semester(s): Fall, Spring and Summer  
Students collaborate with faculty research mentors on ongoing research of the faculty member or conduct independent research under the guidance of a faculty member.  
Pre-Requisites: Permission of instructor Engineering Majors Only

**IE 499 Independent Study**  
Credits: 1 - 12  
Semester(s): Fall, Spring and Summer  
Student directed independent learning activity guided & mentored by faculty. Students should

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**Instructors for HIS 496:**  
Emberton, Rembis

**For a list of Instructors for HIS 498:**  
visit: [http://undergrad-catalog.buffalo.edu/courses/?q=his%20498](http://undergrad-catalog.buffalo.edu/courses/?q=his%20498)

**For a list of Instructors for HIS 499:**  
visit: [http://undergrad-catalog.buffalo.edu/courses/?q=his%20499](http://undergrad-catalog.buffalo.edu/courses/?q=his%20499)

---

**Instructors for IE 496:**  
Harrison Kelly

**For a list of Instructor for IE 496:**  
Harrison Kelly

**Instructors for IE 499:**  
<table>
<thead>
<tr>
<th><strong>International Studies</strong></th>
<th>Listed under Social Sciences Interdisciplinary.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Italian</strong></td>
<td><strong>ITA 498 Undergraduate Research and Creative Activity</strong></td>
</tr>
<tr>
<td></td>
<td>Credits: 1 – 6 Students collaborate with faculty research mentors on an ongoing faculty research project or conduct independent research under the guidance of a faculty member.</td>
</tr>
<tr>
<td></td>
<td><strong>ITA 499 Independent Study</strong></td>
</tr>
<tr>
<td></td>
<td>Credits: 1-12 Students who have demonstrated the ability to perform upper-level coursework may wish to research a topic not available through regular course offerings. Requires permission of a supervising faculty member.</td>
</tr>
<tr>
<td><strong>Leadership and Community Engagement, Center for</strong></td>
<td><strong>UBE496 Leadership Internship</strong></td>
</tr>
<tr>
<td></td>
<td>Credits: 1 - 3</td>
</tr>
<tr>
<td></td>
<td>Students increase their understanding of particular areas of interest including leadership, diversity, health and wellness, career planning, and more through educational and work experience in various Student Affairs offices.</td>
</tr>
<tr>
<td><strong>Lin Legal Studies</strong></td>
<td>Listed under Social Sciences Interdisciplinary.</td>
</tr>
<tr>
<td><strong>Linguistics</strong></td>
<td><strong>LIN 496 Internship</strong></td>
</tr>
<tr>
<td></td>
<td>Credits: 2 – 6</td>
</tr>
<tr>
<td></td>
<td>Semester(s) Typically Offered: Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>Language teaching experience either in a UB department (Linguistics, a language department, English Language Institute, etc.), in the Buffalo public schools, or at a public service agency (International Institute of Buffalo, Herman Badillo Institute, Literacy Volunteers, etc.). Open to majors and non-majors. Apply to director of undergraduate studies.</td>
</tr>
<tr>
<td></td>
<td><strong>LIN 499 Independent Study</strong></td>
</tr>
<tr>
<td></td>
<td>Credits: 1 – 12 Semester(s) Typically Offered: Fall, Spring</td>
</tr>
<tr>
<td></td>
<td>Apply to director of undergraduate studies.</td>
</tr>
<tr>
<td><strong>Management (School of)</strong></td>
<td><strong>MGA 496 Accounting Practicum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MGF 496 Finance Practicum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MGI 496 Human Resources Practicum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MGM 496 Marketing Practicum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MGS 496 MIS (Management Information Systems) Practicum</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MGT 496 General Management Practicum</strong></td>
</tr>
<tr>
<td><strong>Credit-Bearing Internship Program</strong></td>
<td></td>
</tr>
</tbody>
</table>
Provides students with an opportunity to apply classroom theories to real-life situations. Students have the opportunity to send resumes to internship employers within the BizLink system and if selected, will interview for the internship opportunity. Student may also bring in internship descriptions secured through their own networking activities for approval. Each site is required to assign a specific project to the student to be completed within 150 hours during the course of the semester. Students work under the supervision of a professional and receive exposure to the day-to-day operations within a professional setting.

| Mathematics | MTH 496 Internship in Mathematics  
Credits: 1 – 4  
Semester(s): Fall and Spring  
Prerequisites: Accepted math major, junior/senior standing with a minimum of 24 credits in mathematics, permission of director of undergraduate studies  
Students get field experience in mathematical employment, in business, industry or education, working under the joint supervision of an off-campus supervisor and a university faculty member, usually the director of undergraduate studies. May be taken once only.  
MTH 499 Independent Study  
Credits: 1 – 4  
Semester(s): Fall and Spring  
Individual study arranged between student and faculty member in an area of mathematics of particular interest to the student. | Bernard Badzioc  
Director of Undergraduate Studies  
108/ Mathematics Building  
(716) 645-8798  
badzioc@buffalo.edu  
Instructor for MTH 496:  
Badzioc  
Instructor for MTH 499 visit:  
http://undergrad-catalog.buffalo.edu/courses/?q=mth%20499  
Contact Instructor/Faculty for further information |
| Mechanical Engineering | Listed under Engineering and Applied Sciences (School of) for Co-Op Program information.  
MAE 496 Engineering Internship  
Credits: 3  
Semester(s): Fall and Spring  
Prerequisites: Senior standing and permission of instructor  
Provides experience in real-world engineering problems for senior mechanical and aerospace students. Assigns projects from local industry. Normally requires students to spend eight hours weekly in an engineering office. Students must present written and oral reports. Students interested in an internship or co-op experience should also consider the EAS 396 and EAS 496 sequence.  
MAE 498 Undergraduate Research & Creative Activity  
Credits: 1 – 3  
Semester(s): Fall, Spring and Summer  
Students collaborate with faculty research mentors on an on-going project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry based learning opportunity and engages them as active learners in a research setting. Arrangements must be made with a specific faculty member before registration.  
MAE 499 Independent Study in Mechanical Engineering  
Credits: 1 – 3  
Semester(s): Fall and Spring  
Independent engineering projects or reading courses may be arranged with individual faculty members. Students must make arrangements with a specific faculty member for work on a particular topic before registering. | Brittany Sandor  
Undergraduate Academic Coordinator  
716-645-1796  
bsmetank@buffalo.edu  
Instructors for MAE 496:  
Armstrong, Bennett, Cormier  
Instructors for MAE 498:  
Yoo, Armstrong, Cormier, Tarkesh  
Contact Instructor/Faculty for further information |
| Media Study | DMS 496 Media Arts Internship  
Credits: 1 - 4 | [http://www.mediastudy.buffalo.edu/ugrad_intern.php](http://www.mediastudy.buffalo.edu/ugrad_intern.php) | DMS Internship  
Credits: 1 - 8  
Semester(s): Fall and Spring  
The Department of Media Study has a number of partnerships with local companies, galleries, organizations, broadcasting stations, etc., and students can request a list of these organizations from the department. In addition, the Department of Media Study is developing a number of summer and semester-long internship possibilities with media studios and corporations in Los Angeles, New York City and other media centers. We encourage students to explore their own internship opportunities (at production studios, local TV studios, and media access centers, for example). Students have recently interned with the David Letterman show, MTV, NYC-TV, Tricoast Studios, Late Night with Conan O’Brien, the Black Entertainment Network (BET), Human Code, Fireant Design, and the Buffalo Pan Am Exposition project.  
AVAILABLE INTERNSHIPS:  
- Albright-Knox Art Gallery  
- CEPA  
- Full Circle Studios  
- Hallwalls Contmeporary Arts Center  
- Squeaky Wheel: Buffalo Media Resources  
- WBFO - 88.7 University of Buffalo Radio, NPR member station  
- WGRZ-TV  
- WIVB-TV  
- WKBW-TV  
- WNED-TV  
And many more...  

DMS 499 Independent Study  
Credits: 1 - 8  
Semester(s): Fall, Spring  
There may be a class fee assessed to your student account. | Instructors for DMS 496:  
Bohlen, Roussel, Glazier, Shephard, Sarlin, Rueb, Conrad, Anstey, Pape, Elder and Karppi |  
Instrucor for DMS 499:  
Elder, Sarlin, Glazier, Pape, Rueb, Shephard, Bohlen |

| Medical Technology | MT 496 Internship in Biotechnology  
Credits: 1 - 12  
Semester(s): Fall, Spring and Summer  
Prerequisites: MT 302, MT 401, MT 402 | Leah Doherty  
Undergraduate Program Advisor  
26 Cary Hall  
(716) 829-5182  
dohertyl@buffalo.edu | MT 496 Internship in Biotechnology  
Credits: 1 - 12  
Semester(s): Fall, Spring and Summer  
Prerequisites: MT 302, MT 401, MT 402  
A one-semester, variable credit internship at a biotechnology site includes participation in one or more projects selected to integrate the materials learned in academic courses. Placement is accomplished by the program director, based on the coursework completed and interest of the student. Generally requires an interview at the biotechnology site before placement.  

MT 499 Independent Study  
Credits: 1 - 4  
Semester(s): Fall, Spring and Summer | Instructor for MT 496:  
Rittenhouse-Olson  
Instructor for MT 499:  
Browne, Golyski, Koury, Masso-Welch, Rittenhouse-Olsen, Park |
<table>
<thead>
<tr>
<th>Department</th>
<th>Course Description</th>
<th>Instructor/Faculty Information</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| **Medicinal Chemistry**           | **MCH 498 Undergraduate Research Participation in Medicinal Chemistry**
   Credits: 1 – 6 Semester(s): Fall and Spring
   Prerequisites: CHE 202 or CHE 252; CHE 301
   Involves projects in medicinal chemistry involving a literature search and lab work. | Jerome Keister
   Director of Undergraduate Studies
   562 NSC
   (716) 645-4205
   keister@buffalo.edu | Contact Instructor/Faculty for further information |
|                                   | **MCH 499 Independent Studies**
   Credits: 1 – 12 Semester(s): Fall and Spring
   Prerequisites: CHE 202 or CHE 252 or permission of instructor.
   Involves development of a special topic of student interest under a tutorial arrangement. | | |
| **Music**                         | **MUS 499 Independent Study**
   Credits: 1 – 4 Semester(s): Fall, Spring
   Open to music majors engaged in special study or research in areas not covered by regular courses; permission of the supervising faculty member. | Karen Sausner
   Director of Student Programs
   226 Baird Hall
   (716) 645-2759
   ksaunsner@buffalo.edu | Website: [http://www.music.buffalo.edu](http://www.music.buffalo.edu) |
| **Music Theater**                 | **MTR 496 Internship Music Theatre**
   Credits: 2 - 4
   An internship position with a professional company or educational institution. Focuses on actual "field" experience to enhance the student's preparation for a professional career in musical theatre. | Katie mallinson
   Undergraduate Advisor
   285 Alumni Arena
   (716) 645-6318
   kamallin@buffalo.edu | Contact Instructor/Faculty for further information |
|                                   | **MTR 499 Independent Study**
   Credits: 1 – 4
   Prerequisites: Junior standing
   Substantial independent research or applied project under the supervision of a faculty member | | |
| **Nuclear Medicine Technology**   | **NMD 496 Clinical Rotation**
   Credits: 12
   Semester(s): Fall, Spring
   Prerequisites: senior standing in nuclear medicine technology
   Provides practical experience in various clinical facilities; including static, dynamic, SPECT and PET imaging; in vivo functions studies; instrument operation-gamma cameras and probe devices; health physics, radiopharmaceutical preparation, nuclear cardiology and computerized data systems.
   Pre-Requisites: NMD 324 or NMD 400 | Egon fast
   Clinical Assistant Professor
   716-838-5889
   Fast@buffalo.edu
   Instructor for NMD 496: Egon Fast | |
|                                   | **NMD 498 Undergraduate Research**
   Credits: 1
   Prerequisites: Junior Standing Semester(s) Typically Offered: Fall, Spring
   Students will collaborate with a faculty mentor on an ongoing research project or conduct an independent research project under faculty supervision. This project may relate to any aspect of nuclear medicine, including basic science of nuclear medicine or clinical practice. | | |
<p>| <strong>Nursing</strong>                       | Participate in clinical rotations as part of academic program.                                          | Marsha L. Lewis                                                         | |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester(s)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 496 : Issues In Clinical Practice</td>
<td>3</td>
<td>Spring</td>
<td>Basic or ASB nursing student</td>
<td>Clinical course that provides students opportunities to pursue, independently and in depth, a specific nursing area of particular interest. Students participate in selecting the site for clinical experience. Must be taken in program sequence.</td>
</tr>
<tr>
<td>NUR 499 Independent Study</td>
<td>1-4</td>
<td>Fall, Spring and Summer</td>
<td>Basic or ABS nursing student</td>
<td>Accompanies a summer clinical experience in which students provide patient care at a health-care agency in the Buffalo area. Focus of discussions is on issues that arise out of patient care and the clinical setting such as communication, clinical skills, interactions with colleagues, and documentation of care that is provided. Must be taken in program sequence.</td>
</tr>
</tbody>
</table>

**Occupational Therapy**

Fieldwork and clinical rotations built into academic program. During the second semester of the fourth year, students' progress to the MS component of the program. At this time, students register for six months of full-time supervised fieldwork experience. Students choose fieldwork sites by a lottery system and in consultation with the fieldwork director. Additional fieldwork experiences in such specialized areas of practice as development disabilities, substance abuse, and ergonomics are available as electives. The department maintains clinical affiliation agreements with more than 150 health-care facilities throughout the United States for student placement. Students should expect to leave the Western New York area to fulfill this requirement. Upon completion of fieldwork, students return to the campus for the fifth year of the program. Students must successfully complete fieldwork prior to the start of the fifth year.

**OT 560 Level 2 Fieldwork**
Credits: 6  
Prerequisites: Graduate level  
Three months of full-time supervised fieldwork experience following the completion of required applied practice academic courses. This fieldwork experience will take place in a clinical site related to physical disabilities.

**OT 561 Level 2 Fieldwork**
Credits: 6  
Prerequisites: Graduate level  
Three months of full-time supervised fieldwork experience following the completion of required applied practice academic courses. This fieldwork experience will take place in a clinical site related to physical disabilities.

**Pharmaceutical Sciences**

**PHC 498 Undergraduate Research and Creative Activity**
Credits: 1 - 8  
Semester(s): Fall and Spring  
Involves lab and/or literature research participation on current problems.

**Dean and Professor**  
School of Nursing  
102A Wende Hall  
716-829-3221  
ubnnursingdean@buffalo.edu

Margaret S Grinslade  
School of Nursing  
Assistant Dean for Undergraduate Programs  
716-829-2234  
msgrinsl@buffalo.edu

**Department of Rehabilitation Science**  
School of Public Health and Health Professions  
501 Kimball Tower  
South Campus  
Buffalo, NY 14214-3079  
Phone 716-829-3141

**Instructors for OT 560 and OT 561:**  
Schweitzer

**Web Address:**  
sphhp.buffalo.edu/rehabilitation-science/education/occupational-therapy-bsms.html

**Kathleen M. K. Boje,**  
Undergraduate Director and Advisor  
283 Kapoor Hall  
(716) 645- 4829  
boje@buffalo.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester(s) Typically Offered</th>
<th>Involves/Description</th>
<th>Instructors/Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 499</td>
<td>Independent Study</td>
<td>1 – 5</td>
<td>Fall and Spring</td>
<td>Involves development and assessment, through literature review and discussions, of a topic of student interest.</td>
<td>Sara Robinson</td>
</tr>
<tr>
<td>PMY 498</td>
<td>Undergraduate Research Participation in Pharmacology and Toxicology</td>
<td>1 - 12</td>
<td>Fall, Spring, Summer</td>
<td>Direct involvement in original research involving a literature search and laboratory work.</td>
<td>David E Shubert</td>
</tr>
<tr>
<td>PMY 499</td>
<td>Independent Study</td>
<td>1 – 8</td>
<td>Fall, Spring, Summer</td>
<td>Involves a literature search and library work on a current topic in pharmacology or toxicology. Includes interdisciplinary projects, such as analyses of trends in drug use, toxicological projects, and applied clinical aspects.</td>
<td>Instructors for PMY 498: Bass, Sim, Bhattacharjee, Rajnarayan</td>
</tr>
<tr>
<td>PHI 498</td>
<td>Undergraduate Research and Creative Activity</td>
<td>1 - 8</td>
<td>Fall, Spring</td>
<td>Students who wish to work as research assistants in the Experimental Epistemology Research Group (<a href="http://eerg.buffalo.edu">http://eerg.buffalo.edu</a>) should send an unofficial copy of their university transcript and a brief statement of why they would like to be involved with this research to Dr. James Beebe (<a href="mailto:jbeebe2@buffalo.edu">jbeebe2@buffalo.edu</a>). Students accepted to serve as research assistants will register for one credit-hour of PHI 498 (sec. BEE). Responsibilities include administering short surveys, entering survey data into spreadsheets, sometimes doing background research on new avenues for experimental research.</td>
<td>James M. Lawler</td>
</tr>
</tbody>
</table>
**Suggested Skill Set:** A highly motivated Junior or Senior with a minimum GPA of 3.0 is desired/preferred but talented Freshmen and Sophomores will be considered. Students must be reliable, able to interact comfortably and clearly with a range of people, and possess good communication and organizational skills. No previous research experience necessary. Time commitment is expected to be about 3 hrs per week. Interest in cognitive science desired.

**PHI 499 Independent Study**
Credits: 1 – 8
Semester(s): Fall, Spring

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<table>
<thead>
<tr>
<th>Physical Therapy</th>
<th><strong>Fieldwork and clinical rotations built into academic program.</strong></th>
</tr>
</thead>
</table>
| **PT 511 Practicum in Health and Wellness** | Credits: 3  
Semester(s): Fall  
Prerequisites: Graduate level  
This course prepares the future physical therapist to interact with patients and other related individuals on all levels. A primary goal for the practicum is for students to gain an appreciation of health and wellness programs available in the community. The second important goal is to give the student the opportunity to practice interacting with clients. To develop these skills takes practice, and the most meaningful practice is that which occurs in the community rather than in an academic setting. |
| **PT 512 Clinical Experience I** |  |
| **PT 613 Clinical Experience II** | Credits: 4 |
| **PT 614 Clinical Internship** | Credits: 6 |
| **PT 712 Clinical Residency** | Credits: 6 |
| **PT 713 Clinical Residency II** | Credits: 6  
Prerequisites: successful completion of year one, two, and three in DPT Program  
These courses prepare the future physical therapist to interact with patients, patient's families, and other related individuals on all levels. To accomplish this students will participate in direct patient care in an inpatient or outpatient setting with emphasis on patient management with chronic cardiac or pulmonary conditions under the supervision of a volunteer adjunct clinical faculty member. Students will be required to maintain a "full" caseload of patients by the conclusion of the clinical experience. Clinical experience utilizes direct patient care and recitation/seminar format, to facilitate the student development of problem solving and critical analysis of patient care. |

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<table>
<thead>
<tr>
<th>Physics</th>
<th><strong>PHY 498 Undergraduate Research</strong></th>
</tr>
</thead>
</table>
| Credits: 1 – 3  
Semester(s): Fall, Spring  
Allows students to earn credit for research activities under the direction of a physics faculty member. |  |

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Instructors for PHI 498: Beebe

Department of Rehabilitation Science  
School of Public Health and Health Professions  
501 Kimball Tower  
South Campus  
Buffalo, NY 14214-3079  
Phone: 716.829.3141  
Fax: 716.829.3217  
Website: [sphhp.buffalo.edu/rehabilitation-science/education/doctor-of-physical-therapy-dpt.html](http://sphhp.buffalo.edu/rehabilitation-science/education/doctor-of-physical-therapy-dpt.html)

Juli Wylegala  
Clinical Assistant Professor  
515 Kimball Tower  
716-829-6745  
wylegala@buffalo.edu

Instructors for PT 512: Fisher  
Instructor for PT 512, 613, 614, 712, 713 : Wylegala

John Cerne, Director of Undergraduate Studies  
239 Fronczak Hall
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructors</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| PHY 499 Independent Study in Physics | Credits: 1 - 4  
Semester(s): Fall, Spring  
Involves individual study arranged between a student and a faculty member. Not restricted to students with professional goals in technical areas. | (716) 645-2542  
Jcerne@buffalo.edu  
| Political Science      | **PSC 496 Political Science Internship**  
Credits: 1-16  
Semester(s): Fall, Spring  
Prerequisites: Undergraduates with a GPA of 3.0 or better are eligible to take an internship. Students are responsible for finding the internship and it must be related to previous coursework that the student has completed or will be taking during the internship. Internships are commonly in a government office or agency in Western New York, but may involve work in other politically relevant organizations. -- All paperwork must be handed in to 520 Park Hall by the end of the first week of classes. Late or incomplete paperwork will not be accepted. No internship credit will be awarded retroactively.  
**Community Internship Program** - Involves service with state legislators from the area, city or county government, or various public agencies. Work includes policy research, drafting legislation, field investigations, program evaluations, and contacts with other organizations.  
**Washington Semester Internship Program** - Involves a semester placement in Washington under the direction of a SUNY Brockport Program Officer. Participation includes an internship, a research seminar, and a research paper.  
**NYS Legislative Internship Program** - Involves semester placement in the Albany office of a state senate or assembly member; requires forty-plus-hour weeks as legislative assistants under a professional staff member's guidance. Also requires special readings, weekly seminar, short reports, and a major research paper, under the direction of SUNY faculty-in-residence. | (716)-645-2251  
battist@buffalo.edu  
Instructors for PSC 496: Hinkle, Neiheisel  | Refer to website for application forms: http://polsci.buffalo.edu/undergraduate/internship-program/                                                                 |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester(s) Offered</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 496</td>
<td>Supervised Applied Experience</td>
<td>1 - 8</td>
<td>Psychology major</td>
<td>Fall, Spring</td>
<td>A program of applied work in a community, government, or private agency or organization related to the major in psychology. Must be agreed upon by the student and a faculty sponsor in the department. Credit does not count toward the major. Graded P/F.</td>
</tr>
<tr>
<td>PSY 498</td>
<td>Undergraduate Research</td>
<td>1 - 8</td>
<td>Psychology major</td>
<td>Fall, Spring</td>
<td>A program of supervised research to be agreed upon by the student and a faculty sponsor in the department, including procedures for evaluating student performance. Student receives a letter grade.</td>
</tr>
<tr>
<td>PSY 499</td>
<td>Independent Study</td>
<td>1 - 8</td>
<td>Psychology major</td>
<td>Fall, Spring</td>
<td>A program of scholarship to be agreed upon by the student and a faculty sponsor in the department, including procedures for evaluating student performance. Student receives a letter grade.</td>
</tr>
<tr>
<td>SSC 496</td>
<td>Internship</td>
<td>1 - 6</td>
<td></td>
<td>Fall, Spring, Summer</td>
<td>The Interdisciplinary majors in Health and Human Services, Environmental Studies and Legal Studies offer opportunities to incorporate internship experiences into the undergraduate major. Internships offer students the opportunity to experience a community placement in the Buffalo area where the topics they have studied or the skills they have developed are expressed in a real life setting. Internships are senior level opportunities.</td>
</tr>
<tr>
<td>SSC 499</td>
<td>Independent Study</td>
<td>1 – 4</td>
<td></td>
<td>Fall, Spring</td>
<td>Various instructors offer independent study. Check with the Office of Interdisciplinary Degree Programs each semester.</td>
</tr>
<tr>
<td>Department</td>
<td>Course</td>
<td>Credits:</td>
<td>Semester(s) Typically Offered:</td>
<td>Prerequisites:</td>
<td>Instructor Information</td>
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<tr>
<td>Sociology</td>
<td>SOC 496 Internship Program</td>
<td>1 – 6</td>
<td>Fall, Spring, Summer</td>
<td>Open to sociology majors with junior or senior class standing only. Typically conducted in a community agency, government office, or private setting. Gives students the opportunity to observe and participate in a variety of work experiences related to sociology.</td>
<td>Kelly E. Crean &lt;br&gt; Undergraduate Program Coordinator &lt;br&gt; 435 Park Hall &lt;br&gt; (716) 645-2586 &lt;br&gt; <a href="mailto:kcrean@buffalo.edu">kcrean@buffalo.edu</a></td>
</tr>
<tr>
<td></td>
<td>SOC 499 Independent Study</td>
<td>1 – 12</td>
<td>Fall, Spring, Summer</td>
<td>Typically conducted in a community agency, government office, or private setting. Gives students the opportunity to observe and participate in a variety of work experiences related to sociology.</td>
<td>Kristen Lee</td>
</tr>
<tr>
<td>Spanish</td>
<td>SPA 496 Internship/Practicum</td>
<td>1 – 6</td>
<td>Fall, Spring, Summer</td>
<td>A program of work agreed upon by the student and a faculty sponsor. Requires a faculty sponsor in the department before registering.</td>
<td>Christian Falugh &lt;br&gt; Director of Undergraduate Studies &lt;br&gt; 910 Clemens Hall &lt;br&gt; 716-645-0879 &lt;br&gt; <a href="mailto:cflaugh@buffalo.edu">cflaugh@buffalo.edu</a></td>
</tr>
<tr>
<td></td>
<td>SPA 498 Undergraduate Research and Creative Activity</td>
<td>1 – 6</td>
<td>Fall, Spring</td>
<td>Students collaborate with faculty research mentors on an ongoing faculty research project or conduct independent research under the guidance of a faculty member.</td>
<td>Margarita, Culleton</td>
</tr>
<tr>
<td></td>
<td>SPA 499 Independent Study</td>
<td>1 – 12</td>
<td>Fall, Spring, Summer</td>
<td>Open only to students who have taken at least two courses at the 300/400 level and have a minimum GPA of 3.0 in their Spanish major or minor. Students must design a course of study they want to undertake in one semester. They choose a professor whose area of expertise most closely approximates their topic and must consult with the professor prior to registering for the course. The topic must not duplicate the content of a regular course.</td>
<td>Margarita, Culleton, Guitart, Read, Scarlett, Vargas</td>
</tr>
<tr>
<td>Special Major</td>
<td>Internships</td>
<td></td>
<td></td>
<td>Internships must be proposed and approved by special major advisor.</td>
<td>Michael Kustreba &lt;br&gt; Senior Academic Adviser &lt;br&gt; Special Major Committee &lt;br&gt; Special major Program &lt;br&gt; 275 Park Hall &lt;br&gt; Phone: 716.645.6883</td>
</tr>
<tr>
<td>Speech and Hearing Science</td>
<td>CDS 498 Undergraduate Research and Creative Activity</td>
<td>1 – 3</td>
<td>Fall, Spring</td>
<td>Students collaborate with faculty research mentors on an ongoing project in a faculty member's laboratory or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry-based learning opportunity and engages them as active learners in a research setting.</td>
<td>Wei Sun &lt;br&gt; Director of Undergraduate Studies &lt;br&gt; 137 Cary Hall &lt;br&gt; (716) 829-5307 &lt;br&gt; <a href="mailto:weisun@acsu.buffalo.edu">weisun@acsu.buffalo.edu</a></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Semester(s)</td>
<td>Prerequisites</td>
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<tr>
<td>CDS 499</td>
<td>Independent Study</td>
<td>1 - 4</td>
<td>Fall, Spring</td>
<td>Permission by petition</td>
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<td>Individualized student work under the guidance of a faculty member, intended to pursue topics that are not currently offered through regular coursework at the university.</td>
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<tr>
<td>Theatre</td>
<td>TH 496 Art Management Internship</td>
<td>1 – 4</td>
<td>Fall, Spring</td>
<td>Practica, hands-on experience. Includes work in the areas of promotion, public relations, theatre management, box office, ushering, etc.</td>
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<td></td>
<td>TH 499 Independent Study</td>
<td>1 – 4</td>
<td>Fall, Spring</td>
<td>Substantial independent research or applied project under the supervision of a faculty member.</td>
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<tr>
<td>Urban and Public Policy Studies</td>
<td>Listed under Social Sciences Interdisciplinary.</td>
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<tr>
<td>Visual Studies (Art, Art History)</td>
<td>ART 496</td>
<td>1 – 5</td>
<td>Fall, Spring</td>
<td>Choose from the following:</td>
<td></td>
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<tr>
<td></td>
<td>Arts Management Internship</td>
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<td></td>
<td>Students are assigned to art galleries or other institutions within the university or the community to get hands-on experience as interns. May be repeated once in a different location.</td>
<td></td>
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</tbody>
</table>

College of Arts and Sciences
122 Cary Hall
716.829.2797
cdsdept@buffalo.edu
http://arts-sciences.buffalo.edu/cds.html

Instructors for CDS 498 visit: http://undergrad-catalog.buffalo.edu/courses/?q=cds%20498
Instructors for CDS 499 visit: http://undergrad-catalog.buffalo.edu/courses/?q=cds%20499

Katie mallinson
Undergraduate Advisor
285 Alumni Arena
(716) 645-6318
kamallin@buffalo.edu

Instructors for TH 496: Burlingame, Fornarola, Lamoreux

Susanne Smith
Director, Interdisciplinary Degree Programs Social Sciences
716.645.0722
203 Clemens
slsmith2@buffalo.edu

Lisa Hewitt
Academic Advisor
205 Center for the Arts
(716) 645-0537
lkhewitt@buffalo.edu

Rachel Adams
Associate Curator
201 Center for the Arts
716-645-0570
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>Communication Design Internship</td>
<td>An arranged experience within an agency and the printing industry familiarizes students with actual working conditions and considerations; students observe and participate in design for publication, mechanicals, and other facets of graphic arts production. May be repeated second semester.</td>
<td><a href="mailto:Radams4@buffalo.edu">Radams4@buffalo.edu</a></td>
</tr>
<tr>
<td>Photography Internship</td>
<td>Internship at an art gallery or with a commercial, portrait, or architectural photographic firm; provides professional experience and familiarizes students with working conditions and expectations in their field.</td>
<td>Instructors for ART 496: Linder, Ruffino, Rotheberg, Belanger, Henderson, Hughes.</td>
</tr>
<tr>
<td>Print Media Internship</td>
<td>Provides professional experience and familiarizes students with practices and expectations in the field. An internship may be arranged with a commercial or not-for-profit print studio or gallery.</td>
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</tr>
<tr>
<td>AHI 496 Museum Internship</td>
<td>Credits: 1 – 5 Semester(s) Typically Offered: Fall, Spring Museum and gallery internships are available at such institutions as the Albright-Knox Art Gallery, the CFA Art Gallery, the University Art Gallery, the Amherst Museum, and the Castellani Art Museum of Niagara University. The opportunity is by permission only. Students are encouraged to take AHI 480 Museum Studies, before applying for an internship. Must be junior or senior accepted major. Students must get faculty support and fill out internship request form. Placement is made in conjunction with faculty and includes design firms; commercial photographers; established art institutions or alternative art spaces. Semester-long internships in New York City are also available to students concentrating in graphic design. 16-17 credits are awarded for this experience.</td>
<td>Instructors for AHI 496: Adams, Otto, Olsen.</td>
</tr>
<tr>
<td>Wellness Education Services</td>
<td>UBE496 Special Projects Wellness Credits: 1 - 3 Students increase their understanding of particular areas of interest including leadership, diversity, health and wellness, career planning, and more through educational and work experience in various Student Affairs offices.</td>
<td>Susan A Mann Dolce Associate Director Accessibility Resources (716) 645-3068 <a href="mailto:samann@buffalo.edu">samann@buffalo.edu</a> Varies by course</td>
</tr>
</tbody>
</table>
Special Course Opportunities
The University at Buffalo recognizes the importance of opportunities for students to integrate the material that they have learned during their time at UB and to participate in faculty research and other practical experiences. A distinctive aspect of undergraduate education at UB is the opportunity for students to work closely with faculty who are actively engaged in research and scholarship. Significant opportunities for participation in UB’s local and regional public service mission are available through fieldwork, practicum, internships, and related learning activities. As such, the following course numbers are reserved for special opportunities. Many of these opportunities are considered to be tutorial coursework, conducted individually with a faculty member. The integrity of the degrees granted by UB requires that a substantial portion of the 120 credits of coursework required for these degrees be completed in lecture, seminar, and/or laboratory courses which have been reviewed and approved by appropriate faculty committees; therefore, no more than 18 credits of tutorial coursework can count toward the credits required for graduation with a bachelor’s degree.

494 Senior Capstone Courses
These courses provide opportunities for students to integrate knowledge from lower-level courses. Frequently they are taught in seminar format; students work closely with faculty members and other students in their department to apply classroom knowledge to practical, real-world situations. Topics may vary, and usually focus on faculty and student interests.

495 Undergraduate Supervised Teaching
The university recognizes the value of using Undergraduate Teaching Assistants (UTAs), both as a learning experience for those who are teaching and in bringing their unique perspectives and approaches to the classroom. However, it is important that the following guidelines be followed to ensure quality teaching and learning experiences. In order to serve as an Undergraduate Teaching Assistant, students must meet the following minimum requirements:
- Must have at least junior status (at least 60 credit hours completed);
- Must have an overall GPA of 3.0 or higher; and
- Must have received a grade of A- or better in the course in which they are to assist or in a course taken elsewhere that is equivalent.
Each course must be approved for UTA use prior to UTAs being appointed.

496 Internships
A number of departments offer hands-on experience in the field as part of their course offerings or degree requirements. Many of these experiences are described in the Academic Programs section of this catalog. Participation in these experiences is governed by policies placed by the offering department.

497 Departmental Honors
Each department may award Program Honors which includes a minimum GPA requirement and a senior thesis or project as defined by the department. Students completing the thesis or project component of the program should register for their department’s 497 course. Departments also have the option to award the Program Distinction designations of “with highest distinction,” “with high distinction,” and “with distinction” to students who achieve a certain level of academic excellence and creativity. Criteria vary from department to department. Enrollment in a departmental honors program may be a prerequisite for registration in a 497 course. Students should be directed to consult with their departmental advisor regarding the awarding of departmental honors.

498 Undergraduate Research
Students collaborate with faculty mentors on an ongoing faculty research or creative activity project, or conduct independent research under the guidance of a faculty member. This experience provides students with an inquiry-based learning opportunity and engages them as active learners in a research or creative activity setting. Either the student’s own project or the faculty member’s project to which the student is contributing should utilize the methods for creating new knowledge that are recognized in the field and should result in a unique contribution to the field of knowledge. For more information about Undergraduate Research at UB, see the Center for Undergraduate Research and Creative Activities website.

499 Independent Study
Students have the option of individualized student work under the guidance of a faculty member. Independent Study courses are intended to pursue topics that are not currently offered through regular coursework at UB. In some cases, independent study may be the focal point in the design of an individual program. In others, it may merely add desired depth or breadth to a student’s formal degree program. To enroll in independent study, students must identify a member of the faculty or appropriate professional staff member willing to sponsor their work and gain approval of the appropriate department.