# Architecture & Urban Planning

## College of Architecture & Urban Planning

### Architecture (ARCH)

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U of M Schedule of Classes  Page 8 of 456  FA 2018 2210 05-03-2018 00:05 20532660
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Education

--MOST SCHOOL OF EDUCATION COURSES ARE LISTED UNDER EDUCATION. SOME ADDITIONAL COURSES ARE LISTED UNDER EDUCATION C AND D.
--UNDERGRADUATE STUDENTS MUST HAVE ATTAINED JUNIOR STANDING COMPLETION OF AT LEAST 54 SEMESTER HOURS OR MUST BE SCHOOL OF EDUCATION SPECIAL STUDENTS BEFORE THEY MAY ELECT 300 OR 400 LEVEL COURSES
--TEACHER CERTIFICATION COURSES: ENROLLMENT PREFERENCE WILL BE GIVEN TO STUDENTS PREVIOUSLY ADMITTED TO AN APPROVED TEACHER CERTIFICATION PROGRAM: OTHERS MAY BE REQUIRED TO WITHDRAW.
--UNLESS OTHERWISE INDICATED, CLASS PERMISSION (OVERRIDES) ARE AVAILABLE IN 1033 SEB (734-764-7563).

School Of Education

Education C Behavioral Sciences In Education (EDBEHAVR)

800  Sem Ed Psych 3.00 ADVISORY
20515  P SE 001 T 1-4PM 2218 SEB Cortina
Crosslisted with Psych 861-001.

Education D Curriculum and Instruction (EDCURINS)

421  Teach Latin 3.00 ADVISORY
22948  PI W REC 001 MTH 830-10AM 3315 MH Ross
431  Teach Meth 3.00 ADVISORY
24854  P W REC 001 F 9-12PM 3304 MLB Rastalsky

Education (EDUC)

118  Intr Ed:Sch Mcul Soc 3.00
18255  P W REC 001 MW 1030-12PM 1315 SEB Goldin
212  Hist College Athlet 3.00
25978  A LEC 001 MW 1130-1PM 1202 SEB

After the class is full, we will not be taking students off the wait list until the class starts in the fall, based on attendance and lottery. Thus, your place on the wait list has no bearing on your chances of getting in. Students should be certain to show up to first class day or won't be allowed to register/stay in class, or remain on the wait list.

25979  P W DIS 002 W 1-2PM 2228 SEB
25981  P W DIS 004 TH 9-10AM 2334 SEB
25982  P W DIS 005 W 3-4PM 2334 SEB
25983  P W DIS 007 M 5-6PM 2328 SEB

After the class is full, we will not be taking students off the wait list until the class starts in the fall, based on attendance and lottery. Thus, your place on the wait list has no bearing on your chances of getting in. Students should be certain to show up to first class day or won't be allowed to register/stay in class, or remain on the wait list.

260  Tutr Elem Lit & Lang 3.00
33076  PI SEM 001 W 3-5PM 2228 SEB Cervetti
Contact cervetti@umich.edu for permission.

301  Directed Teach Elem 12.00 ADVISORY 85.00
32623  PI LAB 001 ARR ARR Wall
For permission contact lynch@umich.edu

303  Prob-Prin Elem Ed 2.00 ADVISORY
32625  PI SEM 001 ARR ARR Wall
For permission, contact lynch@umich.edu

307  Practicum 1.00-2.00 ADVISORY
17627  P R LAB 001 TTH 8-12PM ARR Klingelhofer
1st semester Elem students only (Cohort 1.) Year 1.

307  Practicum 1.00-2.00 ADVISORY
10228  P R LAB 002 TTH 8-12PM ARR Warner
For permission contact lynch@umich.edu

307  Practicum 1.00-2.00 ADVISORY
10227  P R LAB 003 F 10-12PM 2340 SEB Robertson
1st semester Elem students only (Cohort 2.) Year 1.

307  Practicum 1.00-2.00 ADVISORY
30472  P R LAB 003 W 8-12PM ARR Robertson

3rd Semester Elem students only (Cohort 1.) Year 2.

307  Practicum 1.00-2.00 ADVISORY
307 Practicum 1.00-2.00 ADVISORY

30473 P R LAB 004 W 8-12PM ARR Bruder 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 2.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
23434 P R LAB 005 W 8-12PM ARR Stull 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 1.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
23435 P R LAB 006 W 8-12PM ARR Blunk 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 2.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
10229 P R LAB 007 W 8-12PM ARR Kamuyu 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 1.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
17634 P R LAB 008 W 8-12PM ARR Berge 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 2.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
10230 P R LAB 010 W 8-12PM ARR Fortini 1.00-2.00 ADVISORY

3rd semester Elem students only (Cohort 2.) Year 2.

307 Practicum 1.00-2.00 ADVISORY
23450 P R LAB 019 TTH 7-12PM ARR 1.00-2.00 ADVISORY

Sec undergraduate MATH students only. Concur reg in EDUC 402-004 and EDUC 413-001.

307 Practicum 1.00-2.00 ADVISORY
23451 P R LAB 020 TTH 7-12PM ARR 1.00-2.00 ADVISORY

Sec undergraduate SCIENCE students only. Concur reg in EDUC 402-005 and EDUC 422-001.

307 Practicum 1.00-2.00 ADVISORY
23452 P R LAB 021 TTH 7-12PM ARR 1.00-2.00 ADVISORY

Sec undergraduate SOCIAL STUDIES students only. Concur reg in EDUC 402-002 and EDUC 432-001.

307 Practicum 1.00-2.00 ADVISORY
23169 P R LAB 022 TTH 7-12PM ARR 1.00-2.00 ADVISORY

Sec undergraduate ENGLISH students only. Concur reg in EDUC 402-001 and EDUC 440-001.

307 Practicum 1.00-2.00 ADVISORY
23168 P R LAB 023 TTH 7-12PM ARR 1.00-2.00 ADVISORY

Sec undergraduate WORLD LANG students only. Concur reg in EDUC 402-006 and EDUC 420-001. If fieldwork days (T/Th) cause schedule restrictions, please contact Maria Coolican at mariajc@umich.edu.

310 Independent Study 1.00-6.00 ADVISORY

Schools Community&Power
Students should obtain permission from instructor and complete Undergrad Independent Study form. Any questions contact tsanf@umich.edu.

317 Observ-Particip Ed 1.00-8.00 ADVISORY

Students should obtain permission from instructor and complete Undergrad Independent Study form. Any questions contact tsanf@umich.edu.

320 Honors Ind Study 1.00-6.00 ADVISORY

Students should obtain permission from instructor and complete Undergrad Independent Study form. Any questions contact tsanf@umich.edu.

333 Video Games&Learning 3.00

Class is being held in Prechter, Room 2202 SEB.
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**Summary:**

- **Partners in Learning (3.00)**: Meets with EDUC 547-001. Students must register and contact katielsc@umich.edu for questions. Tutors and GSIs coordinate tutoring/mentoring experiences for middle school students enrolled at partner schools. Students are required to meet one additional hour each week.
- **Mich Stdnt Caucus (4.00)**: Meets with EDUC 702-001. Students must register and contact katielsc@umich.edu for questions. Students are required to meet one additional hour each week.
- **Educ Programs Youth (3.00)**: Meets with EDUC 702-001. Students must register and contact katielsc@umich.edu for questions. Students are required to meet one additional hour each week.
- **Intl Poetry Guild (3.00)**: Meets with EDUC 702-001. Students must register and contact katielsc@umich.edu for questions. Students are required to meet one additional hour each week.

Mandatory attendance is required for all students at orientation on ??? from 7:00-8:30 pm in 1202 SEB (Schorling Auditorium). Students wishing to take ED 362 for a second time and serve as topic coordinators must be able to attend a weekly seminar meeting on Tuesdays from 4:30-5:30 in 2228 School of Education.
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**Morocco Crosslisted with MENAS 461-001.**

**Arab-Israel Conflic Crosslisted with MENAS 462-001.**

**Topics in HE&PSE Crosslisted with MENAS 463-001.**

**Topics Professional Ed Digit Citizen Media Lit Mid Yrs Class meets at Tappan Middle School.**

**Teach & Learn History Scales This is the lab section for students registered in EDUC 547-002.**

**Media Literacies**

**Teach with Tech**

**Secondary MAC Cohort 1 (Maize) students. Course meets on six occasions: TBD**

**Secondary MAC Cohort 2 (Blue) students. Course meets on six occasions: TBD**

**Teaching & Learning**

**Workshop Teach Math**

**Inquiry Educ Issues**

**Lang Lrng Home Schl**

**Current Iss Ed Stds**

**Admin Ldrsh in Schl**

**Intro Higher Educ**

**Prof Dev Sem in Educ Priority to Higher Ed MA students. Departmental permission required for others--contact cshpe.support@umich.edu.**

**Prof Sem in Tch Edu**

**Secondary MAC students only. Course meets on four occasions: TBD.**

**Secondary MAC students only. Course meets on four occasions: TBD.**
Secondary MAC students only. Course meets on four occasions: TBD.

580 Disability Studies
21788 PW SEM 001 M 4-7PM G463 MH Yergeau
Studying Disability Arts&Cult
591 How We Learn
26204 P SEM 001 T 9-12PM 2229 SEB 3.00
593 Lang Development
18138 PR LEC 001 F 1-4PM 2346 SEB Graves
Elmac 21 students only. Class meets entire semester.
28522 P LEC 002 F 10-1PM 1315 SEB
P LEC 002 F 10-1PM 2228 SEB
Secondary MAC students only (Maize cohort.)
30282 P LEC 003 F 10-1PM 2328 SEB
Secondary MAC students only. (Blue cohort.)
605 Intern Learn Tech
SI IND + ARR ARR
To request a permission for an independent study class, please go to the SOE website (soe.umich.edu) and click on:
Forms
Independent Study
Class Request Form for Educational Studies
622 Higher Ed Proseminar
23503 P SEM 001 M 1-4PM 2320 SEB Latuca
638 Intrn&Dir Field Exp
23514 PI LAB 002 W 5-8PM 4212 SEB
For ES MA students pursuing LPAC. Students should obtain permission from mareneo@umich.edu.
29378 PI LAB 003 ARR
For ES MA students in the Educational Assessment and Evaluation pilot program.
639 Topc Ed Resrch Prac
32252 P SEM 001 F 9-12PM ARR Oberman
Divers, Inclusion, Just&Equity
Open to MA and PhD students.
640 Ind Study Ed Stdy
SI IND + ARR ARR
To request a permission for an independent study class, please go to the SOE website (soe.umich.edu) and click on:
Forms
Independent Study
Class Request Form for Educational Studies
649 Found Persp Ed Rtrm
26320 PW REC 001 T 5-8PM 2229 SEB Ball
LPAC and LEADPOL students must take this section. Open to all ES MA students.
28262 P REC 002 W 1-4PM 4212 SEB Freeman
For ES MA students in Teaching and Learning & New Media New Literacies.
650 Refl Teach Fld Exp
10249 PR LAB 001 TTH 830-12PM ARR Coultas
23199 P LAB 001 W 830-330PM ARR
P LAB 001 W 4-6PM ARR
Elementary Practicum
Elmac 21 students only.
650 Refl Teach Fld Exp
21870 PR LAB 002 TTH 830-12PM ARR
650 Refl Teach Fld Exp
P LAB 002 W 830-330PM ARR
P LAB 002 W 4-6PM ARR
Elementary Practicum
Elmac 21 students only.
650 Refl Teach Fld Exp
21871 PR LAB 003 TTH 830-12PM ARR Madden
650 Refl Teach Fld Exp
PR LAB 003 W 830-330PM ARR
PR LAB 003 W 4-6PM ARR
Elementary Practicum
Elmac 21 students only.
650 Refl Teach Fld Exp
21992 PR LAB 004 TTH 830-12PM ARR
650 Refl Teach Fld Exp
PR LAB 004 W 830-330PM ARR
PR LAB 004 W 4-6PM ARR
Elementary Practicum
Elmac 21 students only.
650 Refl Teach Fld Exp
21993 PR LAB 006 TTH 7-4PM ARR
650 Refl Teach Fld Exp
P LAB 006 F 8-10AM 2320 SEB
Secondary Practicum
Secondary MAC HISTORY/SOCIAL SCIENCE students only.
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for future exploration that might help people identify and trust sources of truth and/or that might mitigate the social media. Our aim in this course will be to identify concrete potential interventions, solutions, or avenues narratives. People do not know whom to trust or believe. Misinformation and conspiracy theories spread through matters of fact. Public actors lie and accuse each other of lying. Media outlets present competing Initiative (PSI). We are facing what might be described as a failure or crisis of public trust in sources of truth. This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The class will use the experience of the so-called Islamic State in Iraq and Syria (ISIS) to develop a plan for countering the ways in which extremist groups use social media to instigate acts of violence. The class structure will be collaborative and multidisciplinary. Class time will focus on providing background information on, and discussion about, the problem. Students will spend additional time outside of class meeting in groups, thinking through the problem, and doing research in the service of the final class project, which they will present at the end of the semester to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This class will focus on one particular angle: the potential multiple problems created by the unavoidable future connectivity and automation. The potential benefits of “driverless cars” are widely understood, but the path to expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The class will use the experience of the so-called Islamic State in Iraq and Syria (ISIS) to work in multi-disciplinary teams under the guidance of the instructors, to conceive and propose novel solutions that draw on insights from law, engineering, medicine, business, ethics, and other relevant fields. Each student team will address a specific sub-topic relative to the course theme. Sub-topics may include: What changes in the rules governing practices, participation, and play should be instituted? What kinds of protective and monitoring equipment should be used, and under what protocols? How should such equipment be financed and distributed?

Class time will focus on providing background information and discussion with topical experts. Students are expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This course will challenge students to develop creative approaches to reducing the risk of brain injury in youth and high school football. Students will work in multi-disciplinary teams under the guidance of the instructors, to conceive and propose novel solutions that draw on insights from law, engineering, medicine, business, ethics, and other relevant fields. Each student team will address a specific sub-topic relative to the course theme. Sub-topics may include: What changes in the rules governing practices, participation, and play should be instituted? What kinds of protective and monitoring equipment should be used, and under what protocols? How should such equipment be financed and distributed?

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spread of misinformation. We will draw in insights from a range of inter-connected fields, including (but not limited to): psychology, communications, journalism, social media, information, computer science, law, and history. At the end of the term, students will present a proposal to an expert panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

717 Interdisc Prob Solv 3.00 ADVISORY
- 32229 PI LAB 005 T 315-415PM 1070 LSSH Khanna, Chanchani
- 717 Interdisc Prob Solv 3.00 ADVISORY
- This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In India -- as in many parts of the world -- economic growth and development have been key focus areas for successive governments. However, development often generates costs that force us to address difficult tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic well-being versus the potential threats to the environment and heritage preservation. For example, although India has obtained substantial economic growth in the last two decades, there has also been deterioration in several aspects of India’s heritage, as only a small fraction of pre-colonial monuments in India receive federal protection and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India’s Constitution and polity and gauge the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, historic preservation, and intellectual property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India’s heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

719 Pedagogies of De&I 1.00
- 28802 PI W SEM 001 F 1-4PM 1315 SEB Oberman
- Class meets September 7, 14, 21, 28 and December 7. Students are eligible to enroll in EDUC 719 if 1) they took one section of 719 with Maren in 2017-18; OR 2) if they are enrolled in EDUC 639 with Maren in Fall of 2018; OR 3) if they get direct permission from Maren based on prior experience and/or study.

720 Soc/Per Psy of Educ 3.00 ADVISORY, ENFORCED
- 30189 P R SEM 001 T 1-4PM 2320 SEB Rivas-Drake
- Students should obtain permission from instructor and then complete online form located at http://sitemaker.soe.umich.edu/soe.ispe/request.

728 Prac Learn Tech 1.00-4.00 ADVISORY
- SI IND + ARR
- Measurement of Teaching 3.00 ADVISORY
- 23531 PI SEM 001 ARR Freeman
- Design Based Research
- Permission of Instructor required.
- 28524 P SEM 002 T 9-12PM 2334 SEB Rowan, White

767 Res Pract in HE 1.00-3.00 ADVISORY
- SI IND + ARR
- Students should obtain permission from instructor and then complete online form located at http://sitemaker.soe.umich.edu/soe.ispe/request.

768 Econ of Education 3.00
- 31022 P SEM 001 M 9-12PM 2229 SEB McCall

769 Philanthropy & HE 3.00
- 20016 P SEM 001 W 4-7PM 2320 SEB Burkhardt

770 Ind St High&Cont Ed 1.00-3.00 ADVISORY
- SI IND + ARR
- Students should obtain permission from instructor and then complete online form located at http://sitemaker.soe.umich.edu/soe.ispe/request.

771 Topics High&Cont Ed 3.00 ADVISORY
- 30624 P SEM 002 M 1-4PM 2328 SEB
- 30626 P SEM 003 W 1-4PM 2229 SEB
- 30628 P SEM 004 F 1-4PM 2310 SEB
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**To request a permission for an independent study class, please go to the SOE website (soe.umich.edu) and click on:**

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**Class Request Form for Educational Studies**

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| 992  | Prelims Part B| 1.00-3.00 | ARR | ARR |
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|      | Forms          |    |        |         |

| 995  | Diss-Cand     | 8.00 | ENFORCED |        |
|      |               |    |          |         |
|      | No permissions are required for this class. |    |          |         |
# Engineering

NOTE: THE PHRASES 'OR EQUIVALENT,' 'PERMISSION OF INSTRUCTOR,' OR 'PERMISSION OF DEPARTMENT' MAY BE CONSIDERED AN IMPLICIT PART OF THE PREREQUISITE FOR ALL COURSES IN THE COLLEGE OF ENGINEERING.

## Aerospace Engineering

### Aerospace Engineering (AEROSP)

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| 526  | Hypersonics                        | P    | RW  | LEC | 001 | MW    | 1-230PM | 1012 FXB | 3.00 | Fidkowski      | ADVISORY |        |
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| 533  | Combustion Processes               | P    | LEC | 001 | MWF  | 1030-12PM | 1008 FXB | 3.00 | Driacoil       | ADVISORY |        |
| 535  | Rocket Propulsion                  | P    | LEC | 001 | MW    | 10-1130AM | 2150 DOW | 3.00 | Jorns          | ADVISORY |        |
| 540  | Intermed Dynamics                  | P    | LEC | 001 | TTH  | 1130-1PM | G906 COOL | 3.00 | Orosz          | ADVISORY |        |
| 545  | Rotary Wing Vehicles               | P    | LEC | 001 | MW    | 5-630PM   | 1024 FXB | 3.00 | Friedmann      | ADVISORY |        |
| 548  | Astrodynamics                      | P    | LEC | 001 | MW    | 230-4PM   | 1045 GGBL | 3.00 | Kolmanovsky    | ADVISORY |        |
| 550  | Linear Systems Thry                | A    | LEC | 001 | MWF  | 130-230PM | 1610 IOE | 4.00 | Gillespie      | ADVISORY |        |
| 566  | Data Anal Sys ID                   | P    | LEC | 001 | TTH  | 8-930AM   | 1024 FXB | 3.00 | Bernstein      | ADVISORY |        |
| 574  | Space Physics                      | P    | LEC | 001 | TTH  | 130-330PM | 2424 SRB | 4.00 | Jia            | ENFORCED |        |
| 581  | Space Pol & Manage                 | P    | LEC | 001 | MW    | 1230-130PM | 2246 SRB | 3.00 | Fisk           | ADVISORY |        |
| 582  | Spacecraft Tech                    | P    | LEC | 001 | MW    | 230-430PM | 2246 SRB | 4.00 | Henno          | ADVISORY |        |
| 584  | Nav & Guid Aero Veh                | P    | LEC | 001 | MW    | 1130-1PM | 1008 FXB | 3.00 | Panagou        | ADVISORY |        |
| 585  | Aerospace Sem                      | P    | W   | SEM | 001 | TH    | 4-530PM | 1109 FXB | 1.00 |                | ADVISORY |        |
| 590  | Directed Study                     | D    | IND | +  | ARR  | ARR     | ARR      | 1.00-6.00 |    |                | ADVISORY |        |
| 729  | Spec Top Gasdynamics               | P    | LEC | 001 | TTH  | 830-10AM | 107 GFL | 3.00 | Raman          | ADVISORY |        |
| 740  | Spec Top Fldyn Con                 | P    | LEC | 001 | TTH  | 1130-1PM | 1045 GGBL | 3.00 | Gorodetsky     | ADVISORY |        |

U of M Schedule of Classes Page 26 of 456   FA 2018 2210 05-03-2018 00:05 20532660
### Atm, Oceanic And Space Science

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#### Space Group Seminar

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## Biomedical Engineering (BIOMEDE)

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Students may be dropped from the course for non-attendance on the first class day.

Note: Please note this is a 3 credit hour course. Cross listed with Psych 808.005.
BIOMEDE 523 is cross-listed with HMP 630, PHRMACOL 620, BE 518, & ENGR 523. This class meets on four Thursday evenings from 5:30 pm - 8 pm in addition to Monday/Wednesday mornings. The Thursday meeting dates for 2017 are 9/7, 9/21, 9/28, and 10/12.

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PLEASE NOTE that this year-long (Fall and Winter) class is required for the Medical Product Development concentration.
## Chemical Engineering Department

**Chemical Engineering (CHE)**

--MANY COLLEGE OF ENGINEERING COURSES REQUIRE STUDENTS NOT ENROLLED IN BUSINESS ADMINISTRATION OR ENGINEERING (INCLUDING CCS MAJORS) TO PAY A $115-207 COMPUTER USER FEE. THIS IS A SPECIAL FEE, TO BE PAID ONLY ONCE EACH TERM, AND IS IN ADDITION TO THE INFORMATION TECHNOLOGY ACCESS FEE PAID BY FULL TIME STUDENTS AS PART OF THEIR REGULAR FEE ASSESSMENT. YOU WILL BE INFORMED ON THE FIRST DAY OF CLASS WHETHER OR NOT YOUR CLASS IS SUBJECT TO THIS FEE.

### 230 Mat&Energy Balances

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Students are auto-enrolled in lecture when they elect a discussion. Due to high course enrollment numbers only undeclared and CHE students will be allowed into this class.

### 342 Mass&Heat Transfer

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Students are auto-enrolled in Lecture when they elect a discussion.

### 343 Separ Processes

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Students are auto-enrolled in Lecture when they elect a discussion.

### 466 Proc Dyn & Control

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### 478 Proc Sim & Design

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### 488 Chem Prod Design I

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Civil & Environmental Engr

Civil And Environmental Engineering (CEE)

200 Intro to CEE 1.00

211 Statics & Dynamics 4.00 ADVISORY

212 Solid & Struct Mech 3.00 ADVISORY

312 Structural Engr 4.00 ADVISORY

325 Fluid Mechanics 4.00 ENFORCED

345 Geotech Engr 4.00 ADVISORY

373 Statistical Methods 3.00 ENFORCED

412 Matrix Struct Ana 3.00 ADVISORY

413 Design Metal Struct 3.00 ADVISORY

421 Hydro-Hydraulics 4.00 ADVISORY

428 Groundwater Hydrol 3.00 ADVISORY

431 Constr Contracting 4.00 ADVISORY

435 Build Info Modeling 3.00 ADVISORY

480 Des Env Engr Sys 3.00 ADVISORY

482 Env Microbiology 3.00 ADVISORY

501 Special Topics CEE 1.50

Business Water Risk: Ripple Effects from Watersheds to the Capital Markets

This 7-week course presents an overview of how water has impacted risks to businesses and their supply chains, and how corporate financial managers and institutional investors are starting to incorporate risks in their accounting and asset allocations. Corporate water risk exposure is a function of three variables: 1) company/sector-specific characteristics (e.g. water intensity of production), 2) the water conditions in particular geographies (e.g. drought-prone or strictly regulated), and 3) the strength of corporate management (e.g. proactive vs. reactive) in mitigating risks. The challenge is how the information from the physical world is translated in the financial world, and vice versa. It is often perceived that the proper risk management strategy for water in a corporate context is technology-based (new supply, recycling, monitoring, etc.). The course will describe how capital commitments for technology and infrastructure are often a last resort, because they are expensive, long-term, and often their cost cannot be passed on to the consumer. Short-term, financial risk management is preferred, such as hedging and insurance strategies. This course will explore corporate water risk and financial response strategies.
and discuss commercial tools available to sustainability, corporate and financial managers. This include corporate water footprinting, regional asset risk mapping (Aqueduct), corporate operational risk assessment (Water Risk Monetizer), and financial asset risk signaling (WaterBeta).

26289    P W LEC 028    T  230-330PM  1045 GGBL Ioannou
Computer-aided Project Mgmt
Introduction to the application of modern project management computer systems, including Primavera P6 Professional and Microsoft Project, for construction project planning, scheduling and control. This course must be accompanied or preceded by CEE 536 (or MFG 536).

26871    P W LEC 045    TTH 10-1130AM  1025 GGBL Jeffers
Structural Fire Engineering
Structural Fire Engineering
This course provides an overview of methods for the design and analysis of structures under fire hazards. Topics include: fire models for structural applications, conduction heat transfer analysis, response of materials at elevated temperatures, local and global structural responses, prescriptive and performance-based design approaches. The course will rely on finite element analysis; it must therefore be accompanied or preceded by CEE 510 (or equivalent).

32334    P W SEM 850    TH  3-4PM ARR Masoud
Next Gen Transpo Sys Seminar
Next Generation Transportation Systems Seminar --- Presentation and discussion of selected topics related to transportation systems engineering. Student participation and guest lectures. Conference room 2029 G.G.Brown

510 Fem Sol&Str 3.00 ADVISORY
121978    P W LEC 001    TTH 1-230PM  2153 GGBL Jeffers
511 Dynamics of Struct 3.00 ADVISORY
28695    P W LEC 001    MW  230-4PM  2153 GGBL Filipov
515 Adv Des Reinf Conc 3.00 ADVISORY
22842    P W LEC 001    TTH 1130-1PM  2153 GGBL Wight
521 Flow Open Channels 3.00 ADVISORY
26411    P W REC 001    TTH 1130-1PM  136 EWRE Katopodes
531 Constr Cost Engring 3.00 ADVISORY
32308    P W REC 001    MW  1030-12PM  2153 GGBL Kamat
536 Crit Path Meth 3.00 ADVISORY
10355    P RW LEC 001    TTH 10-1130AM  2153 GGBL Ioannou
540 Advanced Soil Mech 3.00 ADVISORY
32367    P W LEC 001    TTH 1130-1PM  1025 GGBL Michalowski
545 Foundation Engr 3.00 ADVISORY
10356    P W LEC 001    TTH 10-1130AM  2147 GGBL Hryciw
547 Soil Eng & Pavement 3.00 ADVISORY
10357    P W LEC 001    TTH 1230-4PM  1045 GGBL Hansen
553 Infrastruc Sys Opt 3.00
32058    P W LEC 001    MW  1030-12PM  2147 GGBL Yin
554 Data Mining in Trans 3.00 ENFORCED
32059    P RW LEC 001    TTH 1-230PM  107 GFL Masoud
564 Greenhouse Gas Contr 3.00 ADVISORY
32060    P W LEC 001    MW  12-130PM  151 CHRYS Lastoskie
32091    P W LEC 081    MW  12-130PM  151 CHRYS Lastoskie
565 Sem Energy Tech Pol 3.00 ADVISORY
20044    P W SEM 001    W  6-9PM  165 CHRYS Linic
20045    PD SEM 081    W  6-9PM  151 CHRYS Linic
571 Linear Systems Thry 4.00 ADVISORY
23236    A LEC 001    MWF 130-230PM  1610 IOE Gillespie
23237    P W DIS 002    W  430-630PM  1013 DOW
572 Dynamic Infra Sys 3.00 ADVISORY
25208    P W LEC 001    TTH 830-10AM  1311 EECS Lynch
582 Env Microbiology 3.00
10358    A LEC 001    TTH 1-230PM  2147 GGBL Semrau
CEE 582 - both lecture and lab - should be taken by students intending to use the class for graduate credit, including SUGS students. CEE 482 lecture should be taken by undergraduate students with no intention of counting this class towards a graduate program. No graduate credit will be granted for CEE 482.

21954    P W LAB 002    W  130-330PM  113 GFL Semrau
21955    P W LAB 002    W  130-330PM  151 CHRYS Semrau
581 Env Fluid Mechanics 3.00 ADVISORY
20046    P W LEC 001    TTH 230-4PM  1008 EEC Semrau
591 Restoration Concepts 3.00
21984    A LEC 001    MW  1030-1130AM  136 EWRE Katopodes
24337    P W LAB 002    F  9-1230PM  2918 COOL Katopodes
630 Dir Study Const Eng 1.00-3.00 ADVISORY
10358    A LEC 001    TTH 1-230PM  2147 GGBL Semrau
648 Dyn Sol&Str 3.00 ADVISORY
32366    P W REC 001    MWF 11-12PM  1045 GGBL Woods
650 Adv FRC Sus Inf 3.00
32062    P W REC 001    TTH 1-230PM  1025 GGBL Li

U of M Schedule of Classes Page 34 of 456 FA 2018 2210 05-03-2018 00:05 20532660
Environmental Finance: Financial Innovations for Green Growth

This course will review innovations in processes, investment mandates and financial basics of the key pillars of Environmental Finance across all asset classes and investment vehicles. It will examine how established practices, procedures and tools from within the mainstream financial market are being adapted to integrate ESG criteria, in the pursuit of financial performance goals from both an investor and corporate perspective. The course will further explore how new entrepreneurial ventures are starting to disrupt the environmental finance environment.

812 Struct Engr Grad Sem
21971 P RW SEM 001 T 430-530PM ARR Spence
Conference room 2029 G.G.Brown

Presentation and discussion of selected topics relating to construction engineering and management practice and research by invited lecturers.

840 Geotech Engr Sem
20048 P RW SEM 001 TH 4-530PM ARR Michalowski
Conference room 2029 G.G.Brown

1.00 ENFORCED

881 EWRE Grad Sem
21373 P W SEM 001 T 4-530PM 2153 GGBL Ellis

1.00 ADVISORY

910 Struct Engr Res
970 Infr Sys Engr Res
980 Res in Envir Engr
990 Diss-Precand
995 Diss-Cand

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Please note the morning section is reserved for Robotics MS and PhD students.

| 990    | Diss-Precand              | 1.00-8.00 | |
| 995    | Diss-Cand                 | 8.00 | ENFORCED | |

| 590    | Directed Study            | 1.00-6.00 | |
| 990    | Diss-Precand              | 1.00-8.00 | |
| 995    | Diss-Cand                 | 8.00 | ENFORCED | |
Design Science Program

Design Science (DESCI)

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Non Design Science students interested in DESCI 501 MUST add themselves to the waitlist. If you have questions please email gailcarr@umich.edu.

Class will meet in 165 CHRYSLER.
First-yr students: 1 credit; Second-yr students: 2 credits; Third-yr+: 1 or 2 credits.
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Environmental Sciences and Engineering
Environmental Sciences and Engineering (ENSCEN)

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15799 P W LEC 001 TTH 10-1130AM 1210 CHEM De Roo

Intro to Nucl Eng 4.00
15797 S W LEC 001 MW 1030-12PM 1005 DOW Atzmon
15798 P DIS 201 F 9-10AM 1303 EECs Atzmon
21955 P DIS 202 F 130-230PM 1311 EECs Atzmon

Groundwater Hydrol 3.00
18543 P W LEC 001 TTH 10-1130AM 136 EWRE Demand
18544 A LAB 002 M 2-4PM 1310 LBME Demand

Atmos Chemistry 3.00
15858 P LEC 001 TTH 1230-230PM 2238 SRB Steiner

RHE Fundamentals 4.00
15860 P LEC 001 MWF 9-1030AM 1940 COOL Steiner

Combustion Processes 3.00
18093 P W LEC 001 TTH 1030-12PM 1008 FXB Demand

Env Sustainability 3.00
25143 P W LEC 001 MW 430-6PM 1303 EECs Demand
**Electrical Engn & Computer Sci**

**Electrical Engineering And Computer Science (EECS)**

IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE ELECTRICAL ENGINEERING AND COMPUTER SCIENCE DEPARTMENT MAY GIVE AWAY A STUDENT'S PLACE IN A CLASS IF THEY DO NOT ATTEND THE FIRST WEEK OF LECTURES AND LABS/DISCUSSIONS (AS APPROPRIATE) FOR ANY EECS COURSES.

AT THE SAME TIME, THE EECS DEPARTMENT IS NOT OBLIGATED TO WITHDRAW STUDENTS OFFICIALLY FROM THE COURSE, EVEN THOUGH THE STUDENT HAS BEEN INFORMED THAT HIS/HER PLACE IN A COURSE HAS BEEN TAKEN AWAY. STUDENTS ARE RESPONSIBLE FOR THE ACCURACY OF THEIR SCHEDULES AND MUST BE SURE THAT ALL DROPS ARE PROCESSED THROUGH THE REGISTRATION SYSTEM DURING THE NORMAL DROP/ADD PERIOD.

**183 Elem Prog Concepts**

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS.

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LAB 011: Less comfortable with computing.

LAB 012: Less comfortable with computing.

**198 Special Topics**

Discover Computer Science

“1CREDITS for Lec 001”. Enrollment in EECS 198 will be by override only, to request an override please waitlist for course.

**203 Discrete Math**

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS.

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Students must elect discussion and lecture sections.

**U of M Schedule of Classes**

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216 Intro Signals&Syst | 4.00 | ADVISORY, ENFORCED |

STUDENTS MUST ELECT LAB, DISCUSSION AND LECTURE SECTIONS. (Department endeavors to admit all students on the 216 waitlist.)

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230 Engineering EM | 4.00 | ENFORCED |

Students must elect lecture, discussion and lab.

Students in LEC 001 must register for DIS 011.

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270 Intro Logic Design | 4.00 | ENFORCED |

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Intro Embedded Sys Des

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10408 A R LEC 001 MW 130-3PM 1303 EECS Brehob
10409 P RW LAB 011 T 3-6PM 2334 EECS
10410 P RW LAB 012 W 3-6PM 2334 EECS
10411 P RW LAB 013 T 630-930PM 2334 EECS

376 Foundations Comp Sci

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS.

28290 S R LEC 001 MW 1030-12PM 1500 EECS Volkovich, Kutty
24499 S R LEC 002 MW 12-130PM STAMPS Volkovich, Kutty
22826 S R LEC 003 MW 3-430PM 1500 EECS Kutty, Volkovich
23243 S R LEC 004 MW 12-130PM 185 EWRE Kutty, Volkovich

381 Obj-Orient Adv Prog 4.00 ENFORCED

"Only declared Computer Science students, both CoE and LSA, and declared Computer Engineering students are eligible to enroll in this course."

22076 P RW LEC 001 TTH 3-5PM 1014 DOW Kieras

388 Intro Comp Security 4.00 ADVISORY, ENFORCED

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS.

22828 S R LEC 002 TTH 130-3PM 1670 BEYSTER Honeyman, Halderman, Fu

399 Directed Study 1.00-4.00 ADVISORY

IND + ARR ARR

402 Prog for Sci&Eng 4.00 ENFORCED

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**To enroll in EECS 443, a student must have had their CS-LSA Honors Thesis application approved by a Faculty Mentor and the CS-LSA CPA. Paperwork can be obtained from the CSE Undergraduate Advising Office, 2808 Beyster Bldg. Once approved, a course permission will be issued to a student under their faculty mentor's section number.**
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Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

495 Software for Access
4.00 ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

31882 A R LEC 001 MW 12-13PM 1010 DOW Chesney
31883 P RW DIS 011 F 11-12PM 1690 BEYSTER
31884 P RW DIS 012 F 1-2PM 1014 DOW

496 Major Design/Prof
2.00 ENFORCED
15621 P RW LEC 001 F 2-3PM STAMPS Sakallah

497 Major Des Projects
4.00 ENFORCED
28755 P RW LEC 001 MW 1230-230PM 1017 DOW Ringenberg
Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

498 Special Topics
2.00-4.00 ADVISORY
32256 A R LEC 001 TH 3-6PM G906 COOL Koutra
Data Mining
"4 CREDITS for Lec 001 and Dis 011", Prerequisites for Lec 001 and Dis 011: Required EECS 281, and Advisory MATH 214 or equivalent and STATS 250 or equivalent. Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

31895 P RW LEC 002 ARR ARR Chen
Advanced OS Projects
"2 CREDITS for Lec 002", Prerequisites for Lec 002: EECS 281, EECS, 370, and concurrent enrollment in EECS 482. Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

25151 P W LEC 003 TTH 9-10AM 1012 EECS Steel
Quantum Nanotechnology
"3 Credit Hours for Lec 003", Prerequisites for Lec 003: Math 215/216, Physics 240, co-req. EECS 230 or Permission of Instructor.

28846 P LEC 004 MW 3-4PM 185 EWRE Ringenberg
Multidisciplinary Software Dev
"4 CREDITS for Lec 004", Prerequisites for Lec 004: EECS 281 and Permission of Instructor.

26424 P W LEC 005 MW 3-4PM 1200 EECS Berenson
Intro to Algorithmic Robotics
"3 CREDITS for Lec 005", Prerequisites for Lec 005: Required: EECS 280, Recommended: EECS 281 and MATH 214 No credit if students have taken ROB 550 or EECS 598: Motion Planning.

29139 A R LEC 006 M 6-7PM 1670 BEYSTER Baveja
Reinforcement Learning
"4 CREDITS for Lec 006 and Dis 061", Prerequisites for Lec 006: EECS 281 and MATH 214/217. Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

29113 P RW LEC 007 W 1-2PM 1013 DOW Mihalcea
Natural Language Processing
"3 CREDITS for Lec 007", Prerequisites for Lec 007: EECS 281. Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

32511 A R LEC 008 TH 3-6PM 1012 FXB Lasecki
Social Computing Systems
"4 CREDITS for Lec 008 and Dis 081", Prerequisites for Lec 008: EECS 493 or EECS 485, Students who do not meet major restrictions can request permission for this course on or after Monday, April 16, 2018 through the CSE Undergraduate Advising Office.

28845 P RW DIS 011 F 11-12PM 2246 SRB Koutra
Data Mining
"4 CREDITS for Lec 001 and Dis 011 or Dis 12", Prerequisites for Lec 001 and Dis 011: Required EECS 281, and Advisory MATH 214 or equivalent and STATS 250 or equivalent

32257 P RW DIS 012 F 1-2PM G906 COOL Koutra
Data Mining
"4 CREDITS for Lec 001 and Dis 011 or Dis 12", Prerequisites for Lec 001 and Dis 012: Required EECS 281, and Advisory MATH 214 or equivalent and STATS 250 or equivalent

32624 P RW DIS 061 W 4-5PM 1017 DOW Baveja
Reinforcement Learning
"4 CREDITS for Lec 006 and Dis 061", Course will open to EE UG and ECE Grad who meet course prerequisites on Tuesday, April 10, 2018.
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4 CREDITS for LEC 008 and DIS 081; Prerequisites for Lec 008: EECS 493 or EECS 485

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Registration in 545 in Fall 2018 is by override only. To request an override, a student must enter the waitlist and submit a request to the ECE Override System at https://deptapps.engin.umich.edu/ece/override.
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Engineering Undergraduate Educ

Engineering (ENGR)

10459  A  LEC 100  TTH  230-4PM  1571 GGBL  Wynarsky, Hildinger

Biomed Devices & Ortho Implant

STUDENTS ELECTING DIS (101-104) WILL BE AUTO-ENROLLED IN LEC 100.

10460  P  R  DIS 101  TTH  1230-130PM  1006 DOW  Wynarsky
10461  P  R  DIS 102  TTH  130-230PM  1006 DOW  Wynarsky
10462  P  R  DIS 103  TTH  1230-130PM  3433 EECS  Hildinger
10463  P  R  DIS 104  TTH  130-230PM  3433 EECS  Hildinger

32844  A  LEC 150  MW  9-1030AM  1311 EECS  Hayes, Snyder

Drinking Water Quality

STUDENTS ELECTING DIS (152 OR 154) WILL BE AUTO-ENROLLED IN LEC 150 AND THE CORRESPONDING LAB.

32845  A  LAB 151  TH  1230-230PM  113 GFL  Stitt

32846  P  DIS 152  F  1030-1130AM  1005 EECS  Snyder
32847  A  LAB 153  TH  230-430PM  113 GFL  Stitt
32848  P  DIS 154  F  1030-1130AM  3433 EECS  Snyder

Food Science & Engineering

STUDENTS ELECTING DIS (302-306) WILL BE AUTO-ENROLLED IN LEC 300 AND THE CORRESPONDING LAB.

32849  A  LEC 300  TTH  1230-230PM  3433 EECS  Hildinger

Self Driving Cars & Drones

STUDENTS ELECTING DIS (402-408) WILL BE AUTO-ENROLLED IN LEC 400 AND THE CORRESPONDING LAB.

28764  A  LAB 401  F  830-1030AM  108 GFL  Lewis
28763  AD  LEC 410  MW  1100-1PM  1008 FXB  Alford, Fowler

Biototechnology and Human Values

STUDENTS ELECTING DIS (501-504) WILL BE AUTO-ENROLLED IN LEC 500.

18112  ADR LEC 600  MW  130-3PM  1008 FXB  Alford, Fowler

Underwater Vehicle Design

STUDENTS ELECTING DIS (602-606) WILL BE AUTO-ENROLLED IN LEC 600 AND THE CORRESPONDING LAB.

18113  A  LEC 601  T  1030-1230PM  108 GFL
18114  P  R  DIS 602  T  1030-1230PM  108 GFL
18115  A  R  LAB 603  T  230-430PM  108 GFL
20047  A  R  LAB 604  T  130-230PM  2150 DOW  Fowler
20419  A  R  LAB 605  W  1030-1230PM  108 GFL
20420  P  R  DIS 606  W  1030-1230PM  1008 EECS  Sulewski
25034  ADR LEC 650  MW  130-3PM  2150 DOW  Fowler
28761  P  DIS 502  TTH  1100-1200PM  1123 LBME  Sulewski
28762  P  DIS 503  TTH  1005-1130AM  1008 EECS  Sulewski
20418  A  R  LAB 606  W  1030-1230PM  1571 GGBL  Zahn
20417  A  R  LAB 607  W  230-430PM  1571 GGBL  Zahn
20416  A  R  LEC 608  MW  230-430PM  1571 GGBL  Zahn
20415  P  R  DIS 609  W  1030-1230PM  1571 GGBL  Zahn
28760  P  DIS 504  TTH  1030-1130AM  1008 EECS  Sulewski
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### Gaming for the Greater Good

**STUDENTS ELECTING DIS (652-656) WILL BE AUTO-ENROLLED IN LEC 650 AND THE CORRESPONDING LAB.**

- **25039** A R LAB 651 F 8-930AM 224 GFL
- **25040** P R DIS 652 F 930-1030AM 1032 FXB
- **25041** P R DIS 653 F 930-1030AM 224 GFL
- **26536** P R DIS 654 F 830-930AM 107 GFL Alfano
- **26538** P R DIS 656 F 2-3PM 1012 EECS Alfano
- **17384** A R LEC 700 TTH 8-930AM 1008 FXB Washabaugh, Olsen

**Intro to Aerospace Engineering**

- **25039** A R LAB 651 F 8-930AM 224 GFL
- **25040** P R DIS 652 F 930-1030AM 1032 FXB
- **25041** P R DIS 653 F 930-1030AM 224 GFL
- **26536** P R DIS 654 F 830-930AM 107 GFL Alfano
- **26538** P R DIS 656 F 2-3PM 1012 EECS Alfano
- **17384** A R LEC 700 TTH 8-930AM 1008 FXB Washabaugh, Olsen

**Urban Mobility**

- **26612** A R LAB 801 T 1130-130PM 2251 FXB
- **26633** A R LAB 802 T 1130-130PM 2251 FXB
- **23637** A R LAB 803 T 1130-130PM 1032 FXB
- **26640** A R LAB 804 T 1130-130PM 1032 FXB
- **23639** A R LAB 805 T 1130-130PM 1032 FXB
- **26642** A R LAB 806 T 1130-130PM 1032 FXB

**Intro Comp & Prog**

- **10471** A R LEC 001 MW 9-1030AM STAMPS Niciejewski
- **10477** A R LEC 002 MW 1030-12PM STAMPS Alford
- **10483** A R LEC 003 TTH 12-130PM AUD CHRYS Juett

**Design Your Engr Exp**

- **110** Des Your Engr Exp 2.00

**Specific discussion section (101-115) will be assigned by the instructor.**
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**Please note:** this class meets ONLY on the following dates: September 5, September 26, October 10, October 17, October 24, November 28. Mark your calendars now.

ENGR 523 is cross-listed with HMP 630, PHRMACOL 620, BIOMEDE 523, & BE 518. This class meets on four Thursday evenings from 5:30 pm - 8 pm in addition to Monday/Wednesday mornings. The Thursday meeting dates for 2017 are 9/7, 9/21, 9/28, and 10/12.
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<th>CAT#</th>
<th>Course Title</th>
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Business Thought and Action --- This course introduces students to business. In this course we foster development of the key skill of learning via reflection on one's own experience. The course will rely heavily on examination of individual organizations or industries from which generalizations can be made. Specific situations will be selected to convey the excitement of business situations, the role of business in society and the global scope of business. The primary purpose of this class is to educate students about the broad range of problems and opportunities that businesses face and the tools and skills that are necessary to face them. A secondary purpose is to show the students the richness of business activity by 'peeling back the onion' via case discussions of situations and companies they have experienced in their lives. Students will gain familiarity with different kinds of information resources: from trade magazines to mass market books to research journals.

Entrepreneurial Design is a cross-disciplinary course for current and aspiring designers, hackers, and makers. This gateway entrepreneurship course allows students to build foundational knowledge of entrepreneurial design with the opportunity to apply these skills in a hands-on lab (ENTR 390.008 - 010).

Learning Objectives: Students will train in patterns of thought that help them anticipate and drive innovations in technology, business, policy; train in advanced and powerful inventing / problem identification and solving methods; 'earn to identify and meet customer/user needs and wants (i.e.: building stuff you and others actually want to use and buy); obtain practical skills in a specific digital, physical, or combination platform (i.e.: showing how something works is more effective than just telling stories about it).

In this lab, you'll design, prototype, and make Internet of Things (IoT) devices to learn the basics of micro controllers in a hands-on way. You'll also collaborate with others across disciplines to develop your own hardware- and IoT-based entrepreneurial ideas.

Learning Objectives: Students will: develop a basic understanding of coding and electronics; utilize sketching to express, develop, and communicate design ideas; create functional prototypes through engagement in the design process; employ an iterative design approach, integrating concepts from the lecture to develop their final projects; apply a variety of methods for documenting and communicating the progress of their designs.
3D Printing/Prototyping
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

* STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT THIS LAB.

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In this lab, you'll learn how to operate and design for 3D printing machines such as the PrintrBot Play and Form 2. You'll learn how to integrate 3D scan data into your designs. You'll also learn how to use various Rapid Prototyping and Manufacturing (RP&M) applications such as slicers and inspection tools.

Learning Objectives: Students will develop the fundamental skills to operate and design for the additive manufacturing process (3d printing); learn how to operate various types of 3d printers to include the PrintrBot Play, and Form 2; learn AutoDesk Fusion 360, how to operate the Nextengine 3D Laser Scanner, and how to incorporate 3d scan data into one's design; utilize various Rapid Prototyping and Manufacturing (RP&M) applications to include slicers, and inspection tools.

26232 P W LAB 010 M 230-530PM ARR O'Malley, Shtein

Virtual Reality
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

* STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT THIS LAB.

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In this lab, you’ll learn how to develop virtual reality content for the Oculus Rift and MIDEN using Unreal Engine and 3D Studio Max. You’ll also be introduced to asset creation (3D modeling with 3D Studio Max) and scene assembly / functionality by bringing assets into the Unreal Engine & creating interactive experiences through Unreal’s Blueprint system. At the end of the class you’ll be capable of developing virtual reality experiences, simulations, and tools to address real-world problems.

Learning Objectives: Students will have an understanding of how to generate digital content for Virtual Reality platforms; be knowledgeable on versatile file formats, content pipelines, hardware platforms and industry standards; understand methods of iterative design and the creation of functional prototypes using this medium; employ what is learned in the lecture section of this course to determine what is possible, what is marketable, and what are the various distribution methods available within this platform; become familiar with documenting their design process and also pitching their ideas to others, receiving and providing quality feedback.

26267 P W LEC 011 T 6-8PM 133 CHRYS Narayan

E-Commerce Entrepreneurship
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

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In this course, you’ll learn how to start your own profitable business selling consumer products online. We’ll also cover the potential pitfalls to stay away from and analyze other e-commerce businesses.

Learning Objectives: Students will be able to present a turnkey business with a functioning website, product photos/videos, sourcing plan, shipping/fulfillment plan, and advertising plan.

26582 P W LEC 012 M 7-9PM B1570 BUS Brabbs

Digital Product Design
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

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In this course, you’ll learn the total end-to-end process of discovering a digital product need, prototyping a digitized product and getting feedback to relentlessly improve it. In doing so, you’ll be a part of creating the next generation of products that disrupts the economy and reinvents the ways we live - from how we learn and exercise, to how we socialize and get around.

Learning Objectives: Students will learn how to: use design thinking to discover problems worth solving, generate
and prototype solutions, and test with real users; design own product(s) by creating wireframes, interactions, and visual designs; use typography, color, shape, space - and industry-standard tools like Sketch, Invision, etc - to build designs that are attractive, simple, and functional; solicit constructive feedback, critique design work, and substantiate criticism; discuss topics in the design world, including usability, user experience design, user interface design, and design research.

26684 PI  LEC 013 T 4-6PM 1690 BEYSTER Sick, McGuire
TechLab MCity

* Students from ALL schools and colleges may take this course.

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

In this course, you'll be responsible for completing an open-ended autonomous vehicle or mobility project (assigned by a company in the autonomous vehicle/mobility space), and as such gain experience in developing cutting edge technology for an early stage startup.

This course is only available to students enrolled in the TechLab at Mcity Program. Only students who are selected for the TechLab at Mcity Program will be granted permission to enroll. To apply go to http://cfe.umich.edu/techlab-mcity/

Learning Objectives: Students will know how to recognize ambiguity, become comfortable with it, and use project management techniques to plan for the unexpected; utilize project management tools, techniques, and skills; understand assigned company's technology and how it creates value for a customer segment; gain exposure to entrepreneurship and its role in solving big problems; align resources for effective project implementation; appreciate organizational dynamics, communication strategies and stakeholder motivations; identify and utilize key performance metrics for project success; learn to assume responsibility for matters of great importance to assigned company; begin to make transition from student to professional engineer; engage in collaborative learning; immerse themselves in a startup that is developing cutting edge technology for the transportation industry; lead technical and strategic discussion on steps required to achieve technical milestones; discuss a Tech Lab company's work during class discussion and how it relates in the context of class.

34098 P  W LEC 050 M 5-7PM 224 GFL Bailey
DE&I in Entrepreneurship

* Students from ALL schools and colleges may take this course.

* Questions as to whether this course will count toward your degree should be directed to your home department.

It's been shown that diversity drives creativity and innovation, makes teams smarter and more effective, and leads to better outcomes for organizations. Leaders who prioritize inclusivity also know how to leverage talents, skills, and knowledge to make an impact and achieve their goals. Throughout the semester, you will develop the knowledge necessary to create workplaces and communities that value DEI, and further launch yourself/your entrepreneurial endeavors with a stronger DEI mindset. The skills gained in this course will serve you well as current students and help you be an agent of change in your future careers.

407 Entrepreneurship Hr
19992 P  W SEM 001 F 1130-1230PM STAMPS Gibson, Gordon
Entrepreneurship Hour

* Students from ALL schools and colleges may take this course.

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

In this course, you'll be exposed to disruptive, influential and respected entrepreneurs, venture capitalists and business leaders and learn about their personal experiences founding, financing and managing a startup venture.

This seminar series is designed to expose students to entrepreneurship through interaction with experienced entrepreneurs, business leaders, and venture capitalists as well as individuals involved in emerging business models, new venture creation, and technology commercialization. While covering a broad set of engineering disciplines, guest speakers will share their knowledge on the latest, most diverse practices on legal, financial, and other innovation issues. The lectures include leading entrepreneurs and executives, technology innovators, experts from the financial markets, and others who support the entrepreneurial infrastructure. Following these seminars, students will be able to meet the guest speakers along with other members of the entrepreneurial community.

408 Patent Law
19990 P RW LEC 001 T 6-8PM 1024 FXB Fidler
Patent Law

* Students from ALL schools and colleges may take this course.

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408 Patent Law
19990 P RW LEC 001 T 6-8PM 1024 FXB Fidler
Patent Law

* Students from ALL schools and colleges may take this course.

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.
In this course, you'll gain an overview of intellectual property (IP) law with a focus on patent law. You'll learn the fundamentals and leave the class able to identify patentable ideas and possible infringement issues in order to create an IP strategy.

Inventors and entrepreneurs have four concerns related to patent law:

1. protecting inventions during product development
2. determining invention patentability
3. avoiding infringement
4. leveraging a patent as a business asset

This course addresses these concerns through the application of case law and business cases to an invention of a student's choice.

410 Finding Your Venture 2.00
28863 P W LEC 001 TH 3-5PM 1303 EECS Hayden, Brown

Finding Your Venture
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

411 Entr Practicum 3.00 ADVISORY
21389 P RW LEC 001 T 4-6PM A859 CHEM-TBLC Hennessy

Entrepreneurship Practicum
* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.
Learning Objectives: Students will experience entrepreneurship firsthand; Understand and experience the mindset of an entrepreneur; Develop the ability to share the story of your entrepreneurial pursuits and clearly articulate customer needs, value proposition, customer segments, and value-adding solutions; Learn to go from idea phase to action and implementation, including validation through sales; Learn the customer discovery process of gaining empathy, understanding customer needs and wants, getting feedback from customers, prototyping solutions, and testing a value proposition; Actively practice exercising the customer discovery process; Become familiar with the process of starting a business; Learn problem solving in a team-based environment.

* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

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In this course, you'll be immersed in the entrepreneurial process in a supportive classroom environment. You'll learn how to critically evaluate then pursue the development of your own ideas for new ventures by working closely with entrepreneurship faculty and mentors.

Learning Objectives: Students will experience entrepreneurship firsthand; Understand and experience the mindset of an entrepreneur; Develop the ability to share the story of your entrepreneurial pursuits and clearly articulate customer needs, value proposition, customer segments, and value-adding solutions; Learn to go from idea phase to action and implementation, including validation through sales; Learn the customer discovery process of gaining empathy, understanding customer needs and wants, getting feedback from customers, prototyping solutions, and testing a value proposition; Actively practice exercising the customer discovery process; Become familiar with the process of starting a business; Learn problem solving in a team-based environment.

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In this course, you'll grow your venture by building upon the problem validation and customer discovery developed in ENTR 411 and outside of the classroom. Modeled off real-world startup incubator and accelerator programs, you'll learn a variety of entrepreneurship principles and apply them to your venture as the class progresses.

As this course is by Instructor Consent, you must apply here: https://goo.gl/forms/m7ojbpsXWY5h2nh83

Learning Objectives: Students will experience running, growing, and leading their own sustainable ventures to create value; Apply fundamental entrepreneurship principles, including sales, marketing, legal considerations, and finance; Develop the ability to tell the story of your entrepreneurial pursuits, pitch, and clearly articulate customer needs, value proposition, customer segments, and value -adding solutions; Actively practice entrepreneurship by developing an entrepreneurial venture that includes developing a solution and developing customers; Learn to form and launch their own company, go to market, and acquire customers.

* Students from ALL schools and colleges may take this course.

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

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In this course, you'll learn how to build a "lean" marketing plan that will maximize your chance of successfully growing a new concept from an idea to a product to a repeatable and scalable business with little or no resources in an ever-changing environment.

Learning Objectives: Students will learn about the development of a market-based orientation for a start-up company; Students will learn about the creation of a marketing plan for a new venture; Topics and concepts will include knowing one's customers, discovering if anyone want the product, how to articulate one's value proposition, marketing segmentation and targeting, customer discovery research, maintenance and growth of a customer base, distribution channels and partners, pricing and revenue, marketing metrics/testing/iteration; Students will create an entrepreneurial marketing plan.

* Students from ALL schools and colleges may take this course.
In this course, you'll talk 1:1 with disruptive, influential and respected entrepreneurs, venture capitalists and business leaders about their personal journey of founding, financing and managing their ventures.

**Learning Objectives:**
- Students will connect topics gleaned from the gateway ENTR 407 class in order to continue dialogue about the lecture series presentation and/or with the guest speaker her/himself; Make use of outside readings and engage in in-class activities; Develop an entrepreneurial mindset and apply this mindset to future studies and/or career aspirations; Reflect on entrepreneurship and how it applies to their life goals.

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490 Spec Topics Entr 1.00-3.00
29028 P W LEC 012 W 630-930PM 1123 LBME Tarver
Urban Entrepreneurship

* Students from ALL schools and colleges may take this course.

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In this course, you'll learn how to engage a community to identify an important problem and design a sustainable business model that solves it. Whether you're designing the school lunch of the future or the successor to Uber, you're in for a challenging and rewarding experience. Throughout the course, the city of Detroit is referenced to further explore practices and policy surrounding urban entrepreneurship.

**Learning Objectives:**
- Students will clearly understand the definition of "urban entrepreneurship": and how urban-focused businesses compare to others; Learn to effectively analyze and compare the business models of urban-focused ventures; Engage the community on multiple levels to ascertain and prioritize needs; Capture an identified community need in a well-defined problem statement; Understand and apply "design thinking" to formulate potential solutions for the identified problem; Identify a scalable, for-profit business opportunity to implement the proposed solution; Develop a business model that will effectively document the business opportunity; Apply Customer Discovery and Human Centered Design methods to test and refine the business model; Understand the processes required to form, finance, and begin execution of a new business venture; Learn to effectively pitch the venture to prospective co-founders, investors employees, and others.

29041 P W LEC 014 F 9-11AM R1230 BUS Dacko
Leadership in Startups

* Students from ALL schools and colleges may take this course.

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In this course, you'll learn about vision, culture, storytelling, mission, strategy development, the role of the CEO, the difference between the CIO and the CEO, communicators, hiring / firing and operations and management. You'll broaden your perspective of how to get a startup going, scaled, and funded.

**Learning Objectives:**
- Students will be introduced to the fundamentals of how to identify their own values and leadership style and build a complimentary team to support that style; Acquire best practices for handling team recruiting, management, incentives, conflict resolution, and pathways to success; Differentiate between high functioning and poor performing teams; Develop an understanding of key factors that enhance or diminish the likelihood of team success; process, communication, delegation and accountability; Understand team dynamics in a typical entrepreneurial "start-up" environment.

26270 PI LEC 015 TTH 1-230PM 2750 SPH1 Gibson
Entrepreneurial Action&Vision

* Students from ALL schools and colleges may take this course.

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In this course, you'll receive hands-on training, access to experience entrepreneurs, and a paid summer internship. This course is only available to students enrolled in the Entrepreneurs Leadership Program. For more information, visit http://cfe.umich.edu/elp

**Learning Objectives:**
- Students will receive practical, hands-on learning assignments to develop their skills in areas of individual leadership, operations, innovation, and execution with an emphasis on these four areas/objectives. 1. Understanding startups: We will learn about startups through case studies and studying other key principles 2. Industry Assessment: We will gain deeper understanding of specific industries through a variety
of research and analysis approaches. 3. Opportunity Identification: Building on the foundational knowledge of startups and industries, we will work to identify opportunities for innovation. 4. Validation: After identifying innovation opportunities, we will actively test approaches, ideas, products, and services to develop those opportunities.

Entrepreneurial Action & Vision

* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

In this course, you'll receive hands-on training, access to experience entrepreneurs, and a paid summer internship. This course is only available to students enrolled in the Entrepreneurs Leadership Program. For more information, visit http://cfe.umich.edu/elp

Learning Objectives: Students will receive practical, hands-on learning assignments to develop their skills in areas of individual leadership, operations, innovation, and execution with an emphasis on these four areas/objectives. 1. Understanding startups: We will learn about startups through case studies and studying other key principles. 2. Industry Assessment: We will gain deeper understanding of specific industries through a variety of research and analysis approaches. 3. Opportunity Identification: Building on the foundational knowledge of startups and industries, we will work to identify opportunities for innovation. 4. Validation: After identifying innovation opportunities, we will actively test approaches, ideas, products, and services to develop those opportunities.

500 Intro to Innovation 3.00 ENFORCED

Intro to Innovation Careers

* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree should be directed to your home department.

In this course, you'll learn a wide range of concepts and skills to have a successful innovation-focused career in small, medium, and large businesses and institutions. You'll study intellectual property, market and industry analysis, product-market fit, equity and stock options, program and project management, communications, securing investment and government funding, and more.

Learning Objectives: Students will be able to: Describe the value proposition and customer segment for either their own research, favorite product, or service. Draw a value Chain Map and an Eco System Map. Complete the Revenue Model, Value Proposition, Channels, Customer Segments of the Business Model Canvas. Complete the left hand side of the Business Model Canvas. Enter concise descriptions of the Cost Structure plus Key Partnerships, Resources, and Activities. Conduct Customer Discovery interviews. Name at least five regulatory agencies, code and/or standards, and certifications. Compare two competing business models from a given market segment and determine how technology and innovation was used by a startup to displace an established business. Define a patent in their own words. Explain two major differences between each of the following: trade secret, patent, trademark, and copyright.

Generate a Gantt Chart. Generate a simple budget. Generate a 30 Second Elevator Pitch. Analyze conflicts and summarize the issue, people involved, final resolution. Learn how stock options work.
### Interpersonal Skills

**550 Interpersonal Skills**  
3.00  
ENFORCED

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* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree should be directed to your home department.

In this course, you will learn how to use a variety of innovation and entrepreneurial tools to identify opportunities, construct a business model, and assess its fundability so you can bring your ideas to life in a sustainable and scalable way.

Learning Objectives: Students taking this class are expected to:

- Articulate the tangled relationships between four of the nine components of the Business Model Canvas: value proposition, channel, customer segment, and revenue streams.
- Capture a value chain map for a given channel to market.
- Develop an ecosystem map and communicate the fundamental change your innovation will bring to the market.
- Think strategically about the synergy and tensions between innovation capture and creation across several industry verticals.
- Cultivate an ability to tailor technology innovation towards a sustainable business model with modern day revenue stream tactics.

Theories of leadership will be discussed and unpacked, with the intent of more fully understanding sources of leadership power and the positive and negative aspects of various leadership styles. At the interplay of these themes lies at the heart of most business success. Characteristics of such teams, including visionary leadership, communication, and passion will be reviewed in detail. Vital interpersonal skill sets such as questioning, providing feedback, and mentoring will be defined and developed in terms of best available research and practice. Moving beyond the initial phase of theory and interpersonal awareness, the course will also require students to apply their developed understanding to various case studies, scenarios, and projects. While not focusing explicitly on business practices and entrepreneurial activities, the entire course will be grounded in this field and will rely heavily on tying in the real world experiences of students and instructor to maximize the future applicability of what is learned.

Do people sometimes or often surprise, irritate, or enrage you? Looking back over the last year, can you think of a time you "lost control" or would like a "do over?" By building your self-awareness and Emotional Intelligence, you can gain insight, self-control, and produce consistently positive results for yourself and others.

Questions as to whether this course will count toward your degree should be directed to your home department.
Successful project managers and consultants possess the skills necessary to manage their teams, clients, activities, schedules, risks, communications and resources to produce desired outcomes. This course introduces the tasks and challenges fundamental to project management, the vital function of managing complex projects; and consulting, the business of giving expert advice.

Learning Objectives: Upon completion of the course, students should be able to: understand the key elements of project management & consulting, which includes: Sell, Engage, Scope, Plan, Research, Innovate, Decide, Manage, Change Management, Close. Manage a project from beginning to end.

* Students from ALL schools and colleges may take this course.

* Syllabi and workload information and other ENTR courses can be found at cfe.umich.edu/courses

* Questions as to whether this course will count toward your degree should be directed to your home department.

* This course was previously offered as ENTR 599.020 Special Topics: Project Management and Consulting.
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STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.

TC 380 is a pre- or co-requisite to IOE 481

Class meets in BLAU1570 (Ross)

Predictive Data Modeling

IOE 691.079 is 3 credits

Stochastic/Robust Optimization
Integrative Systems and Design

Automotive Engineering Program (AUTO)

501 Integ Veh Syst Dsgn 3.00 ADVISORY
17702 P LEC 001 F 130-430PM 165 CHRYS Bell IV, Tao, Roger

503 Auto Eng Project 3.00-4.00 ADVISORY
D IND + ARR ARR

513 Autobody Structures 3.00 ADVISORY
32816 P W LEC 001 MW 1-230PM 165 CHRYS Malen
33573 P LEC 881 ARR ARR Malen

533 Adv Energy Solutions 3.00 ADVISORY
21868 P RW LEC 001 - TTH 1030-12PM 165 CHRYS Wooldridge

Graduate students should enroll in AUTO 533-001 this fall, per the professor. Undergraduates should enroll in ME433-002. Any override requests should be sent to me-aso@umich.edu.

590 Directed Study&Res 1.00-3.00
IND + ARR ARR

599 Spec Topics Auto Eng 3.00 ADVISORY
25158 P LEC 001 ARR ARR
25159 PD LEC 002 TH 12-2PM ARR Winter

Verifications and Validation
Register for 3 credit hours. Class will meet for 2 hours every other Thursday afternoon starting Sept 10th, from 12noon - 2pm in the Rosenblatt Room, NAME 236.

Energy Systems Engineering Program (ESENG)

501 Sem Energy Tech Pol 3.00 ADVISORY
19548 P W SEM 001 F 6-9PM 165 CHRYS Linic
19788 PD SEM 001 W 6-9PM ARR Linic

503 Energy Systems Proj 3.00 ADVISORY
D IND + ARR ARR

599 Energy Sys Spec Topc 3.00 ADVISORY
22461 PD LEC 001 ARR ARR Lastoskie
25161 P LEC 003 MW 12-130PM ARR Lastoskie

Greenhouse Gas Control
This course presents a review of strategies for the reduction of greenhouse gas (GHG) emissions in power generation, transportation, and the built environment. Sources, discharges, and physical properties of GHGs are surveyed, and technologies for GHG elimination or sequestration are discussed. Policy options for GHG control are considered.

21515 PD LEC 004 TH 12-2PM ARR Keoleian

Verifications and Validation
Register for 3 credit hours. Class will meet for 2 hours every other Thursday afternoon starting Sept 10th, from 12noon - 2pm in the Rosenblatt Room, NAME 236.

Financial Engineering Program (FINENG)

590 Ind St or Research 1.00-3.00 ADVISORY
IND + ARR ARR

Integrative Systems and Design (ISD)

503 ISD Practicum 3.00-9.00 ENFORCED
23073 R IND + ARR ARR

520 Intr to Systems Engr 3.00 ADVISORY, ENFORCED
23074 P R LEC 001 TTH 12-130PM 165 CHRYS Bordley, Diamond

This course was offered in previous terms as ENGR 500.059. All registrations for Fall 2013 for that course will automatically be transferred to ISD 520.

528 Adv Design for mfg 3.00 ADVISORY
32954 P W LEC 001 - MW 1030-12PM 151 CHRYS Malen, Ezzat
32955 P LEC 881 MW 1030-12PM 151 CHRYS Malen, Ezzat

590 Directed Study&Res 1.00-3.00
D IND + ARR ARR

599 Spc Topics in ISD 3.00 ADVISORY
Donald C. Winter, Adjunct Professor of Practice with NA&ME, former Secretary of the Navy and former President and CEO of TRW has generously offered to assist with ISD 599C. While the class is scheduled on T/Th of each week, there may be up to two strongly encouraged Wednesday morning sessions each month at 9 AM in CHRYS 151 to work with Dr. Winter on your class project. At least one member of each class project team should be available for the Wednesday morning sessions. For those who will miss these sessions there will be videotapes available of these sessions.
sessions. Those who do attend the Wednesday meetings will be excused from attending the Thursday session on the following day.

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<td>TTH</td>
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Dev&Verif of Sys Des Req
Data collection and analysis techniques for developing and verifying system design requirements are studied: identifying, quantifying and prioritizing stakeholder objectives, minimizing test procedures cost, validation vs. verification, and limited vs. mass production strategies. Course work includes a term project. Knowledge of introductory statistics is required.

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Robotics and Autonomous Vehicle Engineering (RAV)

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| IND     |        |        |      |      |        |      |        |            |

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IND +
Program In Manufacturing

Manufacturing (MFG)

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Materials Science & Engineering

Materials Science Engineering (MATSCIE)

220 Intro Mat & Man 4.00 ENFORCED
10592 A R LEC 100 MWF 1130-1230PM AUD CHRYS Sevener
10593 P RW DIS 101 TH 1130-1230PM 1003 E ECS Heron
10594 P RW DIS 102 TH 1130-1230PM 1003 E ECS Heron
10595 P RW DIS 103 TH 1030-1130AM 185 EWRE Love
29250 P RW DIS 104 TH 1130-1230PM 1123 LBME Love
33935 P RW DIS 105 TH 130-230PM 1680 IOE Love

250 Prin Engr Matl 4.00 ENFORCED
10596 A R LEC 100 MWF 930-1030AM 1571 GGBL Wynarsky
10597 P RW DIS 101 TH 1130-1230PM 1006 DOW Love
19963 P RW DIS 102 TH 130-230PM 2150 DOW Love
19962 P RW DIS 104 TH 1130-1230PM 104 EWRE Love
27998 A R LEC 200 MWF 130-230PM 1123 LBME Love
27999 P RW DIS 201 TH 1130-1230PM 1014 DOW Love
28000 P RW DIS 202 TH 1130-230PM 1123 LBME Love

280 MSE Ugrad Res Opp 1.00-3.00 ADVISORY
I IND + ARR ARR

330 Thermo of Matls 4.00 ADVISORY, ENFORCED
10604 P R LEC 001 MW 12-130PM 1303 E ECS Marquis

400 EMO Mod Dev Tech 3.00 ADVISORY, ENFORCED
10601 P RW LAB 003 TH 12-4PM ARR
14369 P RW LAB 004 W 13-5PM ARR

410 Biomaterials 3.00 ENFORCED
14621 P R LEC 001 MW 10-1130AM 133 CHRYS Mehta

420 Mech Behavior Matrls 3.00 ADVISORY, ENFORCED
14806 P RW LEC 001 TTH 230-4PM 1010 DOW Sevener

360 Materials Lab I 3.00 ADVISORY
10599 S R LEC 001 M 230-330PM 224 GFL Chambers

517 Adv Function Poly 3.00 ENFORCED
20468 P RW LEC 001 TTH 430-6PM 2166 DOW Kim

555 Mat Energy Conv 3.00 ADVISORY, ENFORCED
31029 P RW LEC 001 TTH 3-430PM 1200 EECS Goldman

554 Comput Methods 3.00
26064 P LEC 001 MW 830-10AM 2150 DOW Kieffer

500 Research Problems 1.00-3.00 ENFORCED
D DR IND + ARR ARR

510 Materials Chem 3.00
15901 P LEC 100 TTH 830-10AM 1250 USB McCrory

550 Fund Mat Sci & Eng 3.00 ADVISORY
25394 P RW LEC 001 MW 830-10AM 1200 EECS Shahani

560 Structure Matrls 3.00 ADVISORY
18147 P LEC 001 MW 3-430PM 3433 E ECS Kieffer

31018 P RW LEC 046 TTH 1230-230PM 1008 E ECS Allison

690 Research Problems 1.00-16.00
593 MSE Special Topics 3.00 ADVISORY
31018 P LEC 046 TTH 1230-230PM 1008 E ECS Allison

Integrated Computational Materials Engineering (ICME)
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## Mech Eng & Applied Mech Dept

### Mechanical Engineering (MECHENG)

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| **235 Thermodynamics I**     | 3.00| ENFORCED |         |
| 22792 P RW LEC 001 TTH 130-3PM|     |        |         |
| 22790 P RW LEC 002 TTH 3-430PM|     |        |         |
| 26110 P RW LEC 003 TTH 130-3PM|     |        |         |

| **240 Dynamics & Vibrations** | 4.00| ENFORCED |         |
| 10552 P RW LEC 001 MWF 330-5PM|     |        |         |
| 10553 P RW LEC 002 MWF 930-11AM|     |        |         |
| 26138 P RW LEC 003 MWF 930-11AM|     |        |         |

| **250 Des & Mfg I**          | 4.00| ENFORCED |         |
| 290 RISE 2 IND + ARR ARR 1.00-3.00|     |        |         |
| 305 Intro Finite Element 3.00|     | ADVISORY|         |
| 10561 P RW LEC 001 MWF 1130-1230PM|     |        |         |
| 32574 P RW LEC 002 MWF 1230-1330PM|     |        |         |

| **311 Strength-Materials**   | 3.00| ADVISORY|         |
| 10562 P W LEC 001 MWF 930-1030AM|     |        |         |
| 320 Fluid Mech I 3.00|     | ENFORCED|         |
| 17132 P RW LEC 001 TTH 12-130PM|     |        |         |
| 17133 P RW LEC 002 TTH 1030-12PM|     |        |         |

| **335 Heat Transfer**        | 3.00| ENFORCED|         |
| 17131 P RW LEC 001 TTH 9-1030AM|     |        |         |
| 17140 P RW LEC 002 TTH 12-130PM|     |        |         |

| **336 Thermodyn II**         | 3.00| ADVISORY|         |
| 28170 P W LEC 001 TTH 12-130PM|     |        |         |

| **350 Des & Mfg II**         | 4.00| ENFORCED|         |
| 10563 A RW LEC 001 TTH 130-3PM|     |        |         |

| **360 Mod & Ctrl Dyn Sys**   | 4.00| ENFORCED|         |
| 10567 P RW LEC 001 TTH 830-1030AM|     |        |         |
| 10568 P RW LEC 002 TTH 3-5PM|     |        |         |

| **382 Mech Behav Matls**     | 4.00| ENFORCED|         |
| 10569 P RW LEC 001 MWF 9-1030AM|     |        |         |
| 10570 P RW LEC 002 MWF 1030-12PM|     |        |         |

| **390 RISE 3**               | 2.00-3.00| ENFORCED|         |
| **395 Lab I**                | 4.00| ENFORCED|         |

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. STUDENTS ARE NOT PERMITTED TO TAKE THIS COURSE PASS/FAIL.
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**ENROLLMENT IN A DISCUSSION SECTION WILL AUTO-ENROLL YOU IN THE LECTURE AND RECITATION. PROJECTS VARY FOR DISCUSSION SECTIONS. ONCE CLASSES BEGIN, STUDENTS WILL DROP/ADD TO THE APPROPRIATE PROJECT-RELATED SECTION. MUST BE DONE BY 3RD WEEK OF TERM. STUDENTS ARE NOT PERMITTED TO TAKE THIS COURSE PASS/FAIL.**

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**STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. STUDENTS ARE NOT PERMITTED TO TAKE THIS COURSE PASS/FAIL. PREREQUISITES ARE ENFORCED AND MUST BE MET TO ENROLL IN THIS CLASS.**
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AEROSP students should enroll in Section 1. MECHENG students should enroll in Section 2.
Naval Architect & Marine Engineering (NAVARCH)

--Many college of engineering courses require students not enrolled in business administration or engineering (including CCS majors) to pay a $115-207 computer user fee. This is a special fee, to be paid only once each term, and is in addition to the information technology access fee paid by full time students as part of their regular fee assessment. You will be informed on the first day of class whether or not your class is subject to this fee.

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Contact the department at noon@umich.edu if you encounter any issues when registering for the class.
## Nuclear Engineering And Radiological Sciences (NERS)

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There will be additional lectures for the first 3 weeks of classes. These lectures will be scheduled for Thursdays from 12:30-2:30 pm. Location will be announced in 1st regular class.

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS.

---

**Intro to Nuclear Reactor Codes**

- **Course Code**: 499
- **Course Title**: Res Nrr Eng/Rad Sci
- **CR**: 1.00-3.00
- **PREREQ**: ADVISORY, ENFORCED

**Course Description**: This course will discuss the design considerations and analysis methods of fast spectrum reactors. Starting from a...
In a historical perspective, the following topics will be covered: cross section properties in fast energy range, fissile breeding and actinide burning along with design implications, core materials, reactor plant systems, core neutronics design, reactivity effects and control requirements, fuel pin and assembly design, fuel pin thermal performance, core thermal-hydraulics design, safety considerations, and protected and unprotected transient analysis.

Low temperature plasmas are used for materials and microelectronics processing, plasma aided combustion, lighting, lasers and medicine. This course will address the plasma initiated chemistry and plasma surface interactions of these systems. Electron impact, ion-molecule and excited state reactions, radiation transport; and the reaction of these species with inorganic, organic and liquid surfaces will be discussed.

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Plasma Chem&Plas Surf Interact

Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR
34036 P LEC 006 MW 9-1030AM 1003 EECS Kushner
Technical Communication

Technical Communication (TCHNCLCM)

IN ORDER FOR STUDENTS TO MAINTAIN THEIR PLACE IN CLASS, THEY MUST EITHER ATTEND ONE OF THE FIRST TWO CLASS MEETINGS OR NOTIFY THE DEPARTMENT OF THEIR INTENDED ABSENCE PRIOR TO THE FIRST DAY OF CLASS.

### 300 Tech Comm for EE&CE

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### 496 Adv TchCom for EE/CE

If you already have selected team members for your EECS design project, you are encouraged to register for the same section of TC496 with those members?

- 23795 | P LEC 002 F              | 1.00 |         |         |
- 28942 | P LEC 022 F              |     |         |         |
- 32761 | P LEC 027 M              |     |         |         |
- 32763 | P LEC 028 M              |     |         |         |
- 32764 | P LEC 029 TH             |     |         |         |
- 32951 | P LEC 030 T              |     |         |         |
- 33520 | P LEC 031 TH             |     |         |         |

### 575 Directed Study

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### Environment and Sustainability

**School for Environment and Sustainability (EAS)**

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**Environment and Sustainability (EAS)**

- **Biol of Fishes**
- **Bio Fish Lab**
- **Soil Ecology**
- **Ornithology**
- **Forest Ecology & Mgmt**
- **Grad Experimental**
- **Geospatial Field Methods**
- **Decoding Genetically Modified (GM) Crops**
- **Found of Sus Food Sys**
- **Energy Justice**
- **Primate Conserv Biology**
- **Environmental Finance**
- **Field Remote Sensing UMBS**
- **UN Framewrk Conv on Clim Chnge**
- **Sci&Prac of Soc Chng**

**Prerequisites**

- By permission of instructor.
- Graduate or junior/senior standing.
- One full-semester course in Remote Sensing and/or GIS from the following: EAS 541, EAS 531, EARTH 408, URP 521 or equivalent.
- This course will be held May 6th - 18th, 2018.

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**Found of Sus Food Sys Foundations of Sustainable Food Systems**

- **Nature, Culture, & Landscape**
- **UN Framewrk Conv on Clim Chnge**
- **Sci&Prac of Soc Chng**

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**Environment and Sustainability (EAS)**

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- **Forest Ecology & Mgmt**
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About seven optional one-hour Excel tutorials will be held at a time to be arranged. In 2017, the time was Thursday from 10:10 - 11am. This is the likely time again in 2018.

This course is restricted to only SNRE students.

For more information, please visit the University of Michigan Schedule of Classes.
This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This problem solving course will challenge a multidisciplinary team of students to address a real-world problem in the rapidly-evolving connected and automated vehicle landscape. The Detroit Metro area and the University of Michigan are leading the world in research and deploying technological advances in vehicle connectivity and automation. The potential benefits of "driverless cars" are widely understood, but the path to getting from the current state of human driving to a world of interconnected and "self-driving" vehicles entails an overwhelming confluence of technological, societal, legal, regulatory, political, and business problems. This course will focus on one particular angle: the potential multiple problems created by the unavoidable future interactions between automated vehicles and other road users, such as non-automated, human-driven vehicles, pedestrians, and bicyclists. Classes will be run as discovery sessions with industry, governmental, and academic experts. Students working in multidisciplinary sub-teams will dive deeply into particular aspects of the problem with the course culminating in the creation of an integrated class deliverable in the form of a business or operational plan proposing concrete solutions to the problem.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). We are facing what might be described as a failure or crisis of public trust in sources of truth about matters of fact. Public actors and accuse each other of lying. Media outlets present competing narratives. People do not know whom to trust or believe. Misinformation and conspiracy theories spread through social media. Our aim in this course will be to identify concrete potential interventions, solutions, or avenues for future exploration that might help people identify and trust sources of truth and/or that might mitigate the spread of misinformation. We will draw in insights from a range of inter-connected fields, including (but not limited to): psychology, communications, journalism, social media, information, computer science, law, and history.

At the end of the term, students will present a proposal to an expert panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In India, economic growth and development have been key focus areas for successive governments. However, development often generates costs that force us to address difficult tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic well-being versus the potential threats to the environment and heritage preservation. For example, although India has obtained substantial economic growth in the last two decades, there has also been deterioration in several aspects of India's heritage, as only a small fraction of pre-colonial monuments in India receive federal protection and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India's Constitution and polity and gauge the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, historic preservation, and intellectual property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India's heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.
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Information (SI)

**106 Prog, Info & People**

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The class will use the experience of the so-called Islamic State in Iraq and Syria (ISIS) to develop a plan for countering the ways in which extremist groups use social media to instigate acts of violence. The class structure will be collaborative and multidisciplinary. Class time will focus on providing background information on the problem. Students will spend additional time outside of class meeting in groups, thinking through the problem, and doing research in the service of the final class project, which they will present at the end of the semester to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.
injury in youth and high school football. Students will work in multi-disciplinary teams, under the guidance of the instructors, to conceive and propose novel solutions that draw on insights from law, engineering, medicine, business, ethics, and other relevant fields. Each student team will address a specific sub-topic relative to the course theme. Sub-topics may include: What changes in the rules governing practices, participation, and play should be instituted? What kinds of protective and monitoring equipment should be used, and under what protocols? How should such equipment be financed and distributed?

Class time will focus on providing background information and discussion with topical experts. Students are expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This problem solving course will challenge a multidisciplinary team of students to address a real-world problem in the rapidly-evolving connected and automated vehicle landscape. The Detroit Metro area and the University of Michigan are leading the world in research and deploying technological advances in vehicle connectivity and automation. The potential benefits of "self-driving cars" are widely understood, but the path to getting from the current state of human driving to a world of interconnected and "self-driving" vehicles entails an overwhelming confluence of technological, societal, legal, regulatory, political, and business problems. This course will focus on one particular angle: the potential multiple problems created by the unavoidable future interactions between automated vehicles and other road users, such as non-automated, human-driven vehicles, pedestrians, and bicyclists. Classes will be run as discovery sessions with industry, governmental, and academic experts. Students working in multidisciplinary sub-teams will dive deeply into particular aspects of the problem with the course culminating in the creation of an integrated class deliverable in the form of a business or operational plan proposing concrete solutions to the problem.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

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</table>
and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India’s heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

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Legend:
- CR: Course Title
- PREREQ: Prerequisite
- LAB FEE: Laboratory Fee
- ADVISORY: Advisory
- ENFORCED: Enforced
## Kinesiology
### School Of Kinesiology

#### Athletic Training (AT)

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**Kinesiology (KINESLGY)**

| 302  | Kines Study Abroad                              | 1.00-18.00 |  |
| 20063| PI W LEC 601                                    | ARR | ARR |
| 20064| PI W LEC 602                                    | ARR | ARR |
| 20065| PI W LEC 603                                    | ARR | ARR |
| 20066| PI W LEC 604                                    | ARR | ARR |
| 25101| PI W LEC 605                                    | ARR | ARR |
| 27058| PI LEC 606                                      | ARR | ARR |

**Teach Exper I**

| 402  | Teach Exper I                                   | 1.00-3.00 | ADVISORY |
| 24559| P RW LEC 001                                    | ARR | ARR |

**SpecialTopics MVS AT**

| 413  | SpecialTopics MVS AT                            | 3.00 |  |
| 24559| P RW LEC 001                                    | 830-10AM | 2100 OBL |

**Clinical Gait Analysis**

| 29320| PI LAB 002                                      | ARR | ARR |
| 25616| PI LAB 003                                      | ARR | ARR |
| 24020| PI LAB 004                                      | ARR | ARR |
| 24846| PI LAB 005                                      | ARR | ARR |

**Motor Learning**

| 422  | Motor Learning                                  | 3.00 | ENFORCED |
| 23556| P RW LEC 001                                    | 530-7PM | 3040 CCRB |
| 32055| P RW LEC 002                                    | 830-10AM | 3735 CCRB |

**Lab Mtr Cnt Dev**

| 429  | Lab Mtr Cnt Dev                                 | 1.00-3.00 | ADVISORY |
| 13698| PI LAB 001                                      | ARR | ARR |
| 13699| PI LAB 002                                      | ARR | ARR |
| 17548| PI LAB 003                                      | ARR | ARR |
| 16803| PI LAB 004                                      | ARR | ARR |
| 17539| PI LAB 005                                      | ARR | ARR |
| 18945| PI LAB 006                                      | ARR | ARR |
| 27094| PI LAB 007                                      | ARR | ARR |
| 26912| PI LAB 008                                      | ARR | ARR |
| 26956| PI LAB 009                                      | ARR | ARR |

**Musculoskeletal Imag**

| 438  | Musculoskeletal Imag                            | 3.00 | ENFORCED |
| 31077| P RW LEC 001                                    | 1130-1PM | 3100 OBL |

Override priority to HF students.
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
<th>CR</th>
<th>PREREQ</th>
<th>LAB FEE</th>
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### Movement Science (MOVESCI)

**NOTE - ENROLLMENT NOT GUARANTEED FOR STUDENTS OTHER THAN KINESIOLOGY MAJORS. ATTENDANCE AT FIRST CLASS IS MANDATORY TO RESERVE YOUR PLACE IN CLASS. ACTIVITY CLASSES FOR NON-MAJORS ARE LISTED IN THE UMOVE PROGRAM.**

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<th>PREREQ</th>
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<tbody>
<tr>
<td>110</td>
<td>Bio&amp;Beh Bases Hu Mvt</td>
<td>3.00</td>
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</tbody>
</table>

This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 011.

Because Kinesiology holds MVS 110 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<th>PREREQ</th>
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Because Kinesiology holds MVS 110 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

<table>
<thead>
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Kinesiology students are required to concurrently enroll in MOVESCI 231.

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MOVESCI 240 is not open to enrollment. This course is crosslisted as HF 240 for enrollment by eligible students.

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U of M Schedule of Classes Page 101 of 456 FA 2018 2210 05-03-2018 00:05 20532660
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Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004.

Override needed to enroll (jmergos@umich.edu).

Students must concurrently enroll in MOVESCI 362 sections 001 AND (002, 003 or 004). The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.

 Override needed to enroll (jmergos@umich.edu).

Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004. The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.

 Override needed to enroll (jmergos@umich.edu).

Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004. The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.

 Override needed to enroll (jmergos@umich.edu).

Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004. The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.

 Override needed to enroll (jmergos@umich.edu).

Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004. The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.
Clinical Gait Analysis
Advisory Prereq: MOVESCI 330

Motor Learning
Motor Learning- An introduction to the behavioral and neurobiological basis of adaptation and motor learning.
Evidence from behavioral and neuroimaging studies across beginners and expert performers will be considered with an
emphasis on leveraging motor learning in rehabilitation of clinical populations. This course will be of interest to
students considering careers in rehabilitation or other health-related fields.

Aging & Motor Performance

Motor Learning- An introduction to the behavioral and neurobiological basis of adaptation and motor learning.
Evidence from behavioral and neuroimaging studies across beginners and expert performers will be considered with an
emphasis on leveraging motor learning in rehabilitation of clinical populations. This course will be of interest to
students considering careers in rehabilitation or other health-related fields.

Musculoskeletal Imaging

Lab Motion Control Development

Sci Inquiry: Mocap

Note: Dr. Gross will contact students with the course location, prior to the start of classes.
Advisory Prereq: MOVESCI 330; In this course you will use motion capture to collect and analyze biomechanical data
in a group project. The course format is blended - online assignments before class will prepare you for hands-on
learning activities during class.

CV Exercise Physiology

Lab Exercise Physiology

PA Lifespan

PA Lifespan

Experiential Wearing Tech

Neuro Adv Top IONM

Clin Rot IONM II

Clin Rot IONM III

Science of Medicine

Service - Health Prof

Independent Study
**Physical Education (PHYSED)**

**NOTE - ENROLLMENT NOT GUARANTEED FOR STUDENTS OTHER THAN KINESIOLOGY MAJORS. ATTENDANCE AT FIRST CLASS IS MANDATORY TO RESERVE YOUR PLACE IN CLASS**

**NOTE - COURSES 140, 141, 142, 145, AND 349: CONTACT THE U-MOVE OFFICE (764-1342 OR U-MOVE@UMICH.EDU) FOR CLASS TIMES AND REGISTRATION INFORMATION.**

### 140 Beginning Swim 1.00

- **13669 PD W LAB 001 MW 7-8PM ARR Starling**

**Class will be held in the CCRB Margaret Bell Pool.**

Students must register through the Kinesiology Community Programs (KCP) website (kines.umich.edu/community-programs) or in Rm 3064 CCRB and request an override. To drop/request override, contact kebwink@umich.edu. Little or no swim experience? This course is for you. You'll start with entering the pool and getting comfortable. You'll progress to front crawl, back crawl, elementary backstroke, breaststroke, sidestroke, and butterfly. And you'll learn jumping in, treading, and water safety. Goal: one length of the pool. Goggles recommended. Attendance in at least one of the first two classes is mandatory for evaluation or you may lose your spot in class to those on a waitlist. No enrollments are accepted after the class meets a third time.

### 141 Begin Swim II 1.00 ADVISORY

- **13671 PD W LAB 001 MW 8-9PM ARR Starling**

**Class will be held in the CCRB Margaret Bell Pool.**

Students must register through the Kinesiology Community Programs (KCP) website (kines.umich.edu/community-programs) or in Rm 3064 CCRB and request an override. To drop/request override, contact kebwink@umich.edu. Little or no swim experience? This course is for you. You'll start with entering the pool and getting comfortable. You'll progress to front crawl, back crawl, elementary backstroke, breaststroke, sidestroke, and butterfly. And you'll learn jumping in, treading, and water safety. Goal: one length of the pool. Goggles recommended. Attendance in at least one of the first two classes is mandatory for evaluation or you may lose your spot in class to those on a waitlist. No enrollments are accepted after the class meets a third time.

### 142 Intermediate Swim 1.00

- **13670 PD W LAB 001 MW 8-9PM ARR Starling**

**Class will be held in the CCRB Margaret Bell Pool.**

Students must register through the Kinesiology Community Programs (KCP) website (kines.umich.edu/community-programs) or in Rm 3064 CCRB and request an override. To drop/request override, contact kebwink@umich.edu. Pre-req: Must have ability to swim one length (long way) each of crawl, backstroke and breaststroke. Intermediate swim focuses on refining strokes while building endurance. Each of the strokes will be taken apart and put back together better than before! Other topics covered include laps, treading water, diving and water safety. Goggles recommended. Attendance in at least one of the first two classes is mandatory for evaluation or you may lose your spot in class to those on a waitlist. No enrollments are accepted after the class meets a third time.

### 540 Adv Exerc Phys 3.00 ADVISORY

- **28825 PD W LAB 003 TTH 9-9PM ARR Starling**
water safety. Goggles recommended. Attendance in at least one of the first two classes is mandatory for evaluation or you may lose your spot in class to those on a waitlist. No enrollments are accepted after the class meets a third time.

255 Hlth Ed Elem Teacher 3.00
23811 P RW LEC 001 MW 4-530PM 3040 CCRB Winkelseth
290 Field Exp PHYSED I IND + ARR ARR 1.00-4.00 ADVISORY
326 Fund of Strngth&Cond 3.00 ADVISORY, ENFORCED
13673 P RW LEC 001 MW 10-1130AM 3040 CCRB Winkelseth
336 K-12 Rhythm&Dance 3.00
13674 P RW LAB 001 MW 12-130PM 1315 SEB Winkelseth
370 Honors Reading I IND + ARR ARR 1.00-3.00 ADVISORY
380 Field Experience I IND + ARR ARR 1.00-8.00 ADVISORY
402 Teach Exp PE I IND + ARR ARR 1.00-3.00 ADVISORY
470 Independent Study I IND + ARR ARR 1.00-4.00 ADVISORY
490 Sr Honors Thesis I IND + ARR ARR

Sport Management (SM)
100 SM Freshmen Sem 2.00
28698 P RW SEM 001 F 11-1230PM 3735 CCRB Donahue
This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 011.

Because Kinesiology holds SM 100 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

28699 P W SEM 011 F 11-1230PM 3735 CCRB Donahue
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.

Because Kinesiology holds SM 100 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

101 Pub&Small Grp Comm 3.00
13681 P RW LEC 001 MW 1-230PM 3733 CCRB LaRoche
This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 011.

Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

13682 P RW LEC 002 MWF 10-11AM 3050 CCRB LaRoche
This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 012.

Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

13683 P RW LEC 003 MWF 11-12PM 2100 OBL LaRoche
This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 013.

Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

13684 P RW LEC 004 MWF 12-1PM 2100 OBL LaRoche
This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 014.

Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

17661 PDRW LEC 005 TTH 10-1130AM 3040 CCRB F18- This section has been cancelled.

This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 015.
Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

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<td>This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.</td>
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<td>Because Kinesiology holds SM 111 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<td>Because Kinesiology holds SM 111 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<tr>
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<td>13688</td>
<td>P  RW  LEC  001</td>
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<td>This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 012.</td>
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<tr>
<td></td>
<td>Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<td>32018</td>
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<td>3735 CCRB</td>
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<td>This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.</td>
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<td>Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<td>Business Comm</td>
<td>28423</td>
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<td>Non-Kinesiology students should wait list under section 011.</td>
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<td>Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<td>Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<tr>
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<td>This section is held for Kinesiology students only. Non-Kinesiology students should wait list under section 013.</td>
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<td>Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.</td>
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<td>20366</td>
<td>P  RW  LEC  003</td>
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<td>3733 CCRB</td>
<td>Phelan</td>
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<td>23691</td>
<td>P  RW  LEC  004</td>
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<td>830-10AM</td>
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</table>

U of M Schedule of Classes Page 107 of 456
This course section will meet in CCRB 3745D.

This section is held for Kinesiology students only. Non-Kinesiology students should wait list under section 014.

Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

20367 P W LEC 011 MW 10-1130AM 3100 OBL Donahue
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.

Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

20368 P W LEC 012 MW 1130-1PM 3100 OBL Phelan
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002.

20369 P W LEC 013 TTH 1-230PM 3733 CCRB Phelan
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 003.

Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

23692 P W LEC 014 MW 830-10AM ARR Donahue
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 004.

Because Kinesiology holds SM 217 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

241 Sports Econ&Pol 3.00 ENFORCED
246 Prin of Marketing 3.00 ENFORCED
249 Research Methods 4.00 ADVISORY
Advisory Prerequisite: STATS 250

270 Honors Reading 1.00-3.00 ADVISORY
I IND +

280 Research Opport 1.00-4.00 ADVISORY
I IND +

313 Special Topics 3.00
Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

24850 P RW LEC 005 TH 430-730PM 3100 OBL Jakar
Geograph Inf Sys for Marketing

28405 P RW LEC 007 F 11-2PM B0570 BUS Klarberg
Business Development in Sports
Advisory Prereq: SM 341 (strongly advised)
Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>CR</th>
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<tbody>
<tr>
<td>Career Planning</td>
<td>2.00</td>
<td>ADVISORY</td>
</tr>
<tr>
<td>Eco of Sport</td>
<td>3.00</td>
<td>ENFORCED</td>
</tr>
<tr>
<td>Sport Finance</td>
<td>3.00</td>
<td>ADVISORY</td>
</tr>
<tr>
<td>Sport &amp; Eco Dev</td>
<td>3.00</td>
<td>ADVISORY</td>
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</table>

This course is intended to prepare SM students to conduct their job search. Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>CR</th>
<th>PREREQ</th>
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<tbody>
<tr>
<td>Econ of Sport</td>
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<td>ADVISORY</td>
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</table>

This course is intended to prepare SM students to conduct their job search. Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

Please join the waitlist for override consideration. There is no need to email to request an override. Please join the waitlist. Thank you.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>CR</th>
<th>PREREQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Org Behave-Sport Org</td>
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<tr>
<th>Course Title</th>
<th>CR</th>
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<tr>
<td>Leg/Eth Iss in Sport</td>
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<tr>
<th>Course Title</th>
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<tr>
<td>Sport Finance</td>
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<th>Course Title</th>
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<td>Internship in SM</td>
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<th>Course Title</th>
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<table>
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<th>Course Title</th>
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<td>Race Rel,Cul Images</td>
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<th>Course Title</th>
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F18- SM 440 is a Meets-Together with KINESLGY 513.002.

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## LSA Residential College

### College of L S & A Residential College

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Detroitors Speak

Class will meet at the Cass Corridor Commons (4605 Cass Ave.) from 7-9pm on the following 8 Thursdays:
10/4, 10/11, 10/18, 10/25, 11/1, 11/8, 11/15, 11/29, 12/5

Languages (RCLANG)

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**Many courses must keep 2 times/week open on MTThF, 12-1pm.**

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Literature, Science & the Arts

IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, DEPARTMENTS MAY GIVE AWAY A STUDENT’S PLACE IN A CLASS IF THEY DO NOT ATTEND:

---THE FIRST MEETING OF BIOLOGY, CHEMISTRY, AND PHYSICS LABORATORIES;
---EITHER OF THE FIRST TWO MEETINGS OF ENGLISH COURSES;
---THE FIRST TWO MEETINGS OF HISTORY 396 AND 397;
---EITHER OF THE FIRST TWO MEETINGS OF ANY COURSE OFFERED BY THE DEPARTMENT OF ROMANCE LANGUAGES;
---THE FIRST TWO MEETINGS OF COURSES IN OTHER SUBJECTS.

AT THE SAME TIME, DEPARTMENTS ARE NOT OBLIGATED TO WITHDRAW STUDENTS OFFICIALLY FROM THE COURSE, EVEN THOUGH THE STUDENT HAS BEEN INFORMED THAT HIS/HER PLACE IN A COURSE HAS BEEN TAKEN AWAY. STUDENTS ARE RESPONSIBLE FOR THE ACCURACY OF THEIR SCHEDULES AND MUST BE SURE THAT ALL DROPS ARE PROCESSED THROUGH REGISTRATION SYSTEM DURING THE NORMAL DROP/ADD PERIOD.

Department of Afro-American and African Studies

Afroamerican & African Studies (AAS)

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| 27526| A LEC 001 Mod Civil Rights Mov                   |    |         |         |
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  - 30906 P W DIS 004 TH 4-5PM 1152 SPH2
  - 30907 P W DIS 005 F 11-12PM 3437 MH

- **Intro Arab-Amer Std**
  - 19878 A W LEC 001 TTH 4-530PM AUD D AH
  - 20363 P RW DIS 002 TH 12-1PM 1469 MH
  - 20363 P RW DIS 002 TH 12-1PM 1469 MH
  - 21288 P RW DIS 004 TH 2-3PM 1170 SPH2

- **Intro Nat Amer Stds**
  - 31691 P W LEC 005 TTH 10-1130AM G020 SPH2

- **Elementary Ojibwe I**
  - 25942 P W REC 001 TTH 1-230PM G634 HH

- **Nat Amer Lit**
  - 30956 P W LEC 001 TTH 1130-1PM 1359 MH

- **Buddhism in America**
  - 30589 P W SEM 001 MW 230-4PM 4151 USB

- **Intro Women Study**
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  - 10652 P W DIS 002 W 4-6PM B124 MLB
  - 10653 P W DIS 003 W 5-7PM 2212 MLB
  - 10654 P W DIS 004 TH 2-4PM 2011 MLB
  - 10655 P W DIS 005 W 6-8PM B124 MLB
  - 20101 P W DIS 006 TH 10-12PM 2022 STB
  - 10656 P W DIS 007 TH 4-6PM 1175 NQ
  - 10657 P W DIS 008 TH 8-10AM B135 MLB
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- **Am Cent Art1893-1968**
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*U of M Schedule of Classes Page 128 of 456 FA 2018 2210 05-03-2018 00:05 20532660*
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### Apologies

- Please check the course titles for any errors or inaccuracies.
- For more details, refer to the University of Michigan's official course schedule.
- If you need assistance, feel free to ask.
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### Asian Languages (ASIANLAN)

**NOTE:** IF YOU HAVE TAKEN A SECOND LANGUAGE AT ANY INSTITUTION (OTHER THAN U OF M) AND WOULD LIKE TO ENROLL IN A LANGUAGE COURSE BEYOND THE FIRST YEAR, YOU MUST TAKE THE APPROPRIATE PLACEMENT EXAM. PLEASE CONTACT THE DEPARTMENT OFFICE FOR INFORMATION ABOUT DATE, TIME AND LOCATION OF THOSE PLACEMENT EXAMS.

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This section focuses part of its content on learning Japanese in relation to STEM program needs. All students are welcome, no matter their majors/minors, but STEM students are especially encouraged to enroll.

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# Astronomy Department

## Astronomy (ASTRO)

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<td>142</td>
<td>Big Bang</td>
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**PLEASE NOTE:** This is a HALF-TERM MINI COURSE that meets September 9 - October 21, 2015.

Please contact Astronomy Department or specific instructor (in Astronomy) for questions and/or details regarding this experiential course. Upon enrollment, students and instructor discuss meeting times, possible projects, and expectations for each.

This course is intended primarily for undergraduate students from the School of Education who are specializing in Elementary Education, and for IDA concentrators in the Department of Astronomy.
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<tr>
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<td>389    Indi Studies Astro</td>
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Biology Department

Biology (BIOLOGY)

--A student who does not attend the first meeting of a biology, chemistry, or physics lab may be dropped from that course for non-attendance. All students must take action through the registration process to make sure that their official course schedules match the courses they are attending.

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ALL DISCUSSION SECTIONS BEGIN MONDAY, SEPT. 10.

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| 108 Animal Diversity | 4.00 |
| 24555 | W LEC 001 MWF 9-10AM | 4153 USB | Eidietis |
| 24557 | P DIS 002 T 9-10AM | 2330 MH |
| 24556 | P DIS 003 T 3-4PM | 3088 EH |

| 120 First Year Sem Biol | 3.00 | ADVISORY |
| 25684 | P RW SEM 001 MW 10-1130AM | 4151 USB | Pavgi |
| 30799 | P RW SEM 002 TTH 10-1130AM | ARR | Haenfler |
| 29046 | P RW SEM 003 TTH 10-1130AM | 3265 USB | Raymond |

Biology of Stem Cells

| 121 Topics in Biology | 1.00 |
| 25806 | P W LEC 001 TH 10-12PM | A859 CHEM-TBLC | Carpenter |

The Science of Studying

| 27632 | P LEC 002 MWF 11-12PM | 3163 USB | Pichersky |

Plants and Human Conflict

| 31215 | P W LEC 003 F 12-2PM | 4151 USB | Tibbetts |

| 144 Genetics & Society | 3.00 |
| 28633 | P LEC 001 TTH 10-1130AM | 1046 DANA | Denef |

| 171 Intro Biology: EEB | 4.00 |
| 18633 | S LEC 001 MW 1-230PM | 140 LORCH | Wittkopp |

THE FIRST LECTURE WILL BE HELD WED., SEPT. 5. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 10. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 26, OCT. 24, AND NOV. 14. Students should leave 6-8PM on Wed. open for exams.

HONORS STUDENTS ENROLL IN DISCUSSION SECTION 200 OR 201.

| 18635 | S LEC 003 MW 230-4PM | 140 LORCH | Wittkopp |
| 18636 | S LEC 004 MW 230-4PM | 140 LORCH | Wittkopp |

THE FIRST LECTURE WILL BE HELD WED., SEPT. 5. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 10. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 26, OCT. 24, AND NOV. 14. Students should leave 6-8PM on Wed. open for exams.

HONORS STUDENTS ENROLL IN DISCUSSION SECTION 200 OR 201.

| 18637 | A LEC 005 MW 1-230PM | 2244 USB | Giften |

THE FIRST LECTURE WILL BE HELD WED., SEPT. 5. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 10. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 26, OCT. 24, AND NOV. 14. Students should leave 6-8PM on Wed. open for exams.

This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

| 18638 | P DIS 006 M 830-10AM | 3230 USB |
| 18639 | P DIS 007 M 10-1130AM 3230 USB |
| 18640 | P DIS 008 M 4-530PM 3230 USB |
| 23432 | P DIS 010 T 630-10AM 3230 USB |
| 18641 | P DIS 011 T 10-1130AM 3230 USB |
| 18642 | P DIS 013 M 1130-1PM 3230 USB |
| 18646 | P DIS 014 T 4-530PM 3230 USB |
| 18647 | P DIS 015 T 1130-1PM 1046 DANA |
| 18649 | P DIS 016 T 10-1130AM 3230 USB |
| 18650 | P DIS 018 W 1130-1PM 3230 USB |
| 18651 | P DIS 019 M 830-10AM 2234 USB |
| 18652 | P DIS 020 M 10-1130AM 2234 USB |
| 18653 | P DIS 021 M 1130-1PM 2234 USB |
| 19376 | P DIS 022 M 4-530PM 2234 USB |
| 19058 | P DIS 024 T 4-530PM 2234 USB |
| 18645 | P DIS 025 T 230-4PM 3230 USB | Eidietis |
19060 P W DIS 026 W 8:30-10AM 2234 USB
19061 P W DIS 027 W 10-11:30AM 2234 USB
19062 P W DIS 028 W 11:30-1PM 2234 USB
19375 P W DIS 029 M 8:30-10AM 4152 USB
19369 P W DIS 030 M 10-11:30AM 4152 USB
19370 P W DIS 031 M 11:30-1PM 4152 USB
19374 P W DIS 032 M 4-5:30PM 4152 USB
18654 PDR DIS 100 TTH 9-11AM 2234 USB Giffen
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.
19057 P RW DIS 200 T 11:30-1PM 3230 USB Eidietis
SECTIONS 200 AND 201 ARE RESERVED FOR HONORS STUDENTS.
18657 S W LEC 001 MWF 9-10AM AUD 3 MLB Chapman, Csankovszki
THE FIRST LECTURE WILL BE HELD WED., SEPT. 5. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 10. EXAMS WILL BE GIVEN MONDAYS, OCT. 1, OCT. 29, AND NOV. 19.
18658 S W LEC 002 MWF 9-10AM AUD 3 MLB Chapman, Csankovszki
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.
19385 P W DIS 011 TH 11:30-1PM 3230 USB
18669 P W DIS 012 TH 1:30-2PM 3230 USB
18670 P W DIS 013 TH 2-3PM 3230 USB
18671 P W DIS 014 TH 3-4PM 3230 USB
19053 P W DIS 015 TH 4-5PM 3230 USB
19054 P W DIS 016 F 11:30-1PM 3230 USB
19055 P W DIS 017 F 1-2PM 3230 USB
19056 P W DIS 018 W 1-2PM 3230 USB
19386 P W DIS 019 W 2-3PM 3230 USB
19379 P W DIS 020 W 4-5PM 3230 USB
19380 P W DIS 021 TH 4-5PM 3230 USB
19381 P W DIS 022 TH 5-6PM 3230 USB
18663 P W DIS 023 F 11:30-1PM 3230 USB Spillane
19382 P W DIS 024 F 1:30-2PM 3230 USB Spillane
18665 P W DIS 025 F 2-3PM 3230 USB Spillane
33978 P W DIS 026 W 4-5:30PM 4151 USB
18667 PDR DIS 100 TTH 9-11AM 4152 USB Wood
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.
18668 P RW DIS 201 TH 10-11:30AM 3230 USB Spillane
SECTION 201 IS RESERVED FOR HONORS STUDENTS.
173 Intro Biol Lab 2.00 ADVISORY, ENFORCED 68.00
THE FIRST LECTURE WILL BE HELD FRI., SEPT. 7. LAB SECTIONS BEGIN THE WEEK OF SEPT. 10.
18599 S RW LEC 001 F 2:30PM AUD 3 MLB Ammerlaan
18600 S RW LEC 002 F 3:40PM AUD 3 MLB Ammerlaan
24702 SDR LEC 003 F 3:40PM 1230 USB Schmidt, Baxter
LECTURE SECTION 003 IS RESERVED FOR THOSE ADMITTED TO ACTIVE RESEARCH CONNECTION LAB SECTIONS 201, 202, 203, OR 204 ONLY.
30468 SDR LEC 005 F 3:40PM TBL ROOM BSB Cadigan
LECTURE SECTION 005 IS RESERVED FOR THOSE ADMITTED TO ACTIVE RESEARCH CONNECTION LAB SECTIONS 401 OR 402 ONLY.
18601 P RW LAB 011 M 2:5PM 2114 USB

Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

18602 P RW LAB 012 M 2-5PM 2122 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

19327 P RW LAB 013 M 2-5PM 2115 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

19326 P RW LAB 014 M 2-5PM 2123 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

18603 P RW LAB 021 T 9-12PM 2114 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

18604 P RW LAB 022 T 9-12PM 2122 USB
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19330 P RW LAB 023 T 9-12PM 2115 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

19331 P RW LAB 024 T 9-12PM 2123 USB
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18605 P RW LAB 031 T 2-5PM 2114 USB
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18606 P RW LAB 032 T 2-5PM 2122 USB
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19332 P RW LAB 033 T 2-5PM 2115 USB
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19333 P RW LAB 034 T 2-5PM 2123 USB
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18607 P RW LAB 041 T 7-10PM 2114 USB
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18611 P RW LAB 042 T 7-10PM 2122 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

19334 P RW LAB 043 T 7-10PM 2115 USB
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19335 P RW LAB 044 T 7-10PM 2123 USB
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18612 P RW LAB 051 W 9-12PM 2114 USB
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18613 P RW LAB 052 W 9-12PM 2122 USB
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

19336 P RW LAB 053 W 9-12PM 2115 USB
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19337 P RW LAB 054 W 9-12PM 2123 USB
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18614 P RW LAB 061 W 2-5PM 2114 USB
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18615 P RW LAB 062 W 2-5PM 2122 USB
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19338 P RW LAB 063 W 2-5PM 2115 USB
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19339 P RW LAB 064 W 2-5PM 2123 USB
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18617 P RW LAB 072 W 7-10PM 2122 USB
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19341 P RW LAB 074 W 7-10PM 2123 USB
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Chemistry Department

Chemistry (CHEM)

--A GRADE OF C- OR BETTER MUST BE OBTAINED IN ALL CHEMISTRY COURSES PREREQUISITE TO SUBSEQUENT CHEMISTRY COURSES.

--ROOM A706 CHEM IS A WHEELCHAIR EQUIPPED LAB.

--A STUDENT WHO DOES NOT ATTEND THE FIRST MEETING OF A BIOLOGY, CHEMISTRY, OR PHYSICS LAB MAY BE DROPPED FROM THAT COURSE FOR NON-ATTENDANCE. ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION PROCESS TO MAKE SURE THAT THEIR OFFICIAL COURSE SCHEDULES MATCH THE COURSES THEY ARE ATTENDING.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

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--STUDENTS MUST CLAIM THEIR SPACE AT THE FIRST MEETING OF LAB.

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--STUDENTS MUST CLAIM THEIR SPACE AT THE FIRST MEETING OF LAB.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

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</table>
Section 226/227: Seats reserved for STEM-Comm. Contact Marybeth Bauer, bauermb@umich.edu, to reserve a seat in the course.

--YOU MUST ALSO REGISTER FOR CHEM 126 SECTION 300

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

Active Research Experience section: Enrollment by application only: 
http://sites.lsa.umich.edu/arc/chemistry-125-applications/. Contact bradshal@umich.edu with questions.
--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 100.

CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

16797 P R LEC 200 ARR ARR Poniatowski

--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 200.

CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

17871 P R LEC 300 ARR ARR Poniatowski

--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 300.

CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

130 G Chem Invest&R Prin 3.00 ADVISORY
SECTION 100 STUDENTS MUST ELECT DISCUSSION SECTION 101-121.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

10886 A LEC 100 MWF 10-11AM 1800 CHEM
10887 P DIS 101 F 9-10AM 1632 CHEM
10870 P DIS 102 TH 11-12PM 1628 CHEM
10871 P DIS 103 M 9-10AM 1632 CHEM
10872 P DIS 104 M 12-1PM 1632 CHEM
10873 P DIS 105 T 3-4PM 1046 DANA
10875 P DIS 107 TH 3-4PM 2022 STB
10876 P DIS 109 TH 4-5PM 1024 DANA
10877 P DIS 110 W 4-5PM 1628 CHEM
10878 P DIS 111 W 12-1PM 1624 CHEM
10879 P DIS 112 TH 9-10AM 1046 DANA
10880 P DIS 113 W 9-10AM 1632 CHEM
10881 P DIS 114 T 9-10AM 1518 NUB
10882 P DIS 116 T 4-5PM 1636 CHEM
10883 P DIS 118 W 12-1PM 1650 CHEM
10884 P DIS 120 M 3-4PM 1636 CHEM
32874 PD DIS 150 M 4-5PM 1636 CHEM

Sections 150/250/550: Seats reserved for STEM- Comm. Contact Marybeth Bauer, bauermb@umich.edu, to reserve a seat in one of these sections.

--SECTION 200 - STUDENTS MUST ELECT DISCUSSION SECTION 201-223.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

10886 A LEC 200 MWF 10-11AM 1800 CHEM
10887 P DIS 201 M 4-5PM 1650 CHEM
10888 P DIS 203 F 10-11AM G463 MH
10889 P DIS 204 TH 9-10AM 1636 CHEM
10890 P DIS 205 T 10-11AM 1636 CHEM
10891 P DIS 206 TH 2-3PM 1636 CHEM
10893 P DIS 208 W 10-11AM 1632 CHEM
10894 P DIS 209 F 11-12PM G463 MH
10895 P DIS 210 M 10-11AM 1060 EH
10896 P DIS 211 T 3-4PM 1628 CHEM
10897 P DIS 215 M 2-3PM 1636 CHEM
10899 P DIS 219 TH 3-4PM 1636 CHEM
10900 P DIS 220 W 2-3PM 1636 CHEM
10901 P DIS 221 W 3-4PM 1636 CHEM
10902 P DIS 223 TH 1-2PM 2325 MH
32875 PD DIS 250 M 4-5PM 1636 CHEM

Sections 150/250/550: Seats reserved for STEM- Comm. Contact Marybeth Bauer, bauermb@umich.edu, to reserve a seat in one of these sections.

--SECTION 300 - STUDENTS MUST ELECT SECTION 301-320.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

10903 A LEC 300 MWF 2-3PM 1800 CHEM
10904 P DIS 301 TH 10-11AM 1636 CHEM
10905 P DIS 302 M 4-5PM 1628 CHEM
10906 P DIS 303 W 10-11AM 1628 CHEM
10907 P DIS 304 W 4-5PM 1636 CHEM
20837 P DIS 305 T 2-3PM 1060 EH
--SECTION 400 - STUDENTS MUST ELECT DISCUSSION 402-406. The intensive lecture section (Section 400) is intended for those students who would benefit from a smaller lecture section (maximum 100 students) and more lectures so that the pace is slower and there is more feedback. This section is reserved for CSP students and students who have placed into CHEM 130. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

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--SECTION 500 - STUDENTS MUST ELECT DISCUSSION 501-508. Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

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--SECTION 100- MUST ELECT ONE DISCUSSION 110-199. Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

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--SECTION 200 - MUST ELECT ONE DISCUSSION 210-299. Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
10941 P DIS 210 W 9-10AM 1650 CHEM
10942 P DIS 211 F 2-3PM 1636 CHEM
10943 P R DIS 212 TH 12-1PM 1636 CHEM
10944 P DIS 213 T 11-12PM 1636 CHEM
10945 P DIS 214 TH 2-3PM 1628 CHEM
10946 P DIS 220 T 3-4PM 1033 DENT
10947 P DIS 211 F 2-3PM 1636 CHEM
10948 P DIS 212 TH 12-1PM 1636 CHEM
10949 P DIS 221 T 8-9AM 1628 CHEM
10950 P R DIS 251 M 3-4PM 4096 EH
10951 P DIS 252 TH 12-1PM 1636 CHEM
10952 P DIS 253 W 3-4PM 1632 CHEM
19078 P DIS 263 M 2-3PM 1628 CHEM
10953 P DIS 299 F 1-2PM 1628 CHEM

--SECTION 300 - MUST ELECT ONE DISCUSSION 310-391.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

10954 A LEC 300 MWF 12-1PM 1800 CHEM
10955 P DIS 310 W 1-2PM 210 WH
10956 P R DIS 311 TH 12-1PM 4128 LSA
10957 P DIS 312 T 11-12PM 1632 CHEM
17899 P DIS 313 F 2-3PM 1628 CHEM
20108 P R DIS 314 W 4-5PM 1632 CHEM
10958 P DIS 320 T 3-4PM 1632 CHEM
10959 P DIS 323 W 11-12PM 1628 CHEM
10960 P DIS 350 T 9-10AM 1636 CHEM
10961 P DIS 351 T 1-2PM 1636 CHEM
10962 P DIS 352 TH 4-5PM 1632 CHEM
10963 P DIS 353 M 3-4PM 3265 USB
17900 P DIS 354 F 10-11AM 1636 CHEM
10964 P DIS 360 M 10-11AM 1632 CHEM
10965 P DIS 363 M 3-4PM 1628 CHEM
18780 A LEC 400 MWF 3-4PM 1800 CHEM Shultz

--SECTION 400 - MUST ELECT ONE DISCUSSION 408-421.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

20841 P DIS 408 F 11-12PM 1632 CHEM
20842 P DIS 409 F 4-5PM 1632 CHEM
18869 P DIS 410 W 12-1PM 1632 CHEM
18870 P DIS 411 TH 12-1PM 2234 USB
18871 P DIS 412 T 12-1PM G144 AH
18872 P DIS 413 T 2-3PM 1628 CHEM
18873 P DIS 414 M 10-11AM 1628 CHEM
18874 P DIS 417 M 2-3PM 1636 CHEM
18875 P DIS 418 W 10-11AM 1628 CHEM
18876 P DIS 419 M 10-11AM 1636 CHEM
18877 P DIS 420 M 1-2PM 1632 CHEM
18878 P DIS 421 T 10-11AM 2328 SEB

STUDENTS MUST SHOW VERIFICATION OF REGISTRATION FOR CHEM 211 AT LAB CHECK IN AND CLAIM THEIR SPACES AT THE FIRST MTG OF THE LAB.

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

10966 A LEC 100 F 4-5PM 1800 CHEM Nolta
10967 P LAB 110 M 11-2PM A606 CHEM
10968 P LAB 111 M 11-2PM A612 CHEM
10969 P LAB 112 M 11-2PM A618 CHEM
17821 P LAB 114 M 11-2PM A630 CHEM
18743 P LAB 115 M 11-2PM A636 CHEM
18744 P LAB 116 M 11-2PM A642 CHEM
29550 P LAB 117 M 11-2PM A624 CHEM
18745 P LAB 120 M 2-5PM A606 CHEM
10971 P LAB 121 M 2-5PM A612 CHEM
18720 P LAB 122 M 2-5PM A618 CHEM
18746 P LAB 124 M 2-5PM A630 CHEM
18747 P LAB 125 M 2-5PM A636 CHEM
18748 P LAB 126 M 2-5PM A642 CHEM
18749 P LAB 130 M 2-5PM A706 CHEM
18750 P LAB 131 M 2-5PM A712 CHEM
18751 P LAB 132 M 2-5PM A718 CHEM
18752 P LAB 133 M 2-5PM A724 CHEM
18753 P LAB 134 M 2-5PM A730 CHEM
18754 P LAB 135 M 2-5PM A736 CHEM
18755 P LAB 136 M 2-5PM A742 CHEM
STUDENTS MUST SHOW VERIFICATION OF REGISTRATION FOR CHEM 211 AT LAB CHECK IN AND CLAIM THEIR SPACES AT THE FIRST MTG OF THE LAB.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

### Chem 211-400

Chem 211-400 is focused on techniques used for the synthesis, isolation, and purification of organic compounds, and the content differs from the 100, 200, and 300 sections. This is an honors section.

### Struct&React II

Chem 211-400 is focused on techniques used for the synthesis, isolation, and purification of organic compounds, and the content differs from the 100, 200, and 300 sections. This is an honors section.

### Prerequisites

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
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Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
CHEM 247 meets the same day/time/location as CHEM 246 and can only be taken in conjunction with CHEM 245 and CHEM 246; this is not a stand-alone course.

CHEM 261 is for Chemical Engineering students only.

260 Chemical Principles 3.00 ADVISORY

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

261 Intro Quantum Chem 1.00 ADVISORY

CHEM 261 is for Chemical Engineering students only.

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

262 Math Met Phys Sci 4.00 ADVISORY

CHEM 261 is for Chemical Engineering students only.

303 Intro Bioinorg Chem 3.00 ADVISORY

CHEM 261 is for Chemical Engineering students only.

351 Biochem Fundamentals 4.00 ADVISORY

CHEM 261 is for Chemical Engineering students only.

352 Intro Biochem Lab 2.00 ADVISORY

11003 A LEC 100 MWF 10-11AM 1230 USB Goodson III

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.

CHEM 261 is for Chemical Engineering students only.

353 Biochem Tech Wr 3.00 ADVISORY

CHEM 261 is for Chemical Engineering students only.
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Please note that section 002 will meet at the same time/days/location of section 001 - MWF 8-9am in 1250 USB. Contact ChemicalBiology@umich.edu for registration inquiries. Section 002 is intended for MS Cancer Chemical Biology students; section 001 is intended for PhD students.
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**Latin (LATIN)**

NOTE - A PRE-REGISTRATION PLACEMENT TEST FOR STUDENTS WITH HIGH SCHOOL LATIN FOR THE FALL TERM WILL BE REQUIRED. GO TO THE DEPARTMENTAL OFFICE, 2160 A H, FOR INFORMATION OR CALL 764-0360.
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U of M Schedule of Classes Page 164 of 456 FA 2018 2210 05-03-2018 00:05 20532660
Communication Studies
Communication Studies (COMM)

NOTE - ENROLLED STUDENTS MAY BE DROPPED FROM COMMUNICATION STUDIES CLASSES FOR FAILURE TO ATTEND THE FIRST TWO MEETINGS.

101 The Mass Media 4.00 ENFORCED
- 11056 A R LEC 001 TTH 230-4PM 140 LORCH
  - 11057 P RW DIS 002 TH 7-8PM B137 MLB
  - 11058 P RW DIS 003 F 10-11AM 1110 NQ
  - 11059 P RW DIS 004 F 11-12PM 1110 NQ
  - 11060 P RW DIS 005 F 12-1PM 1110 NQ
  - 11061 P RW DIS 006 F 1-2PM 1110 NQ
  5 seats reserved for LSA Honors.

11056 A R LEC 001 TTH 230-4PM
11057 P RW DIS 002 TH 7-8PM
11058 P RW DIS 003 F 10-11AM
11059 P RW DIS 004 F 11-12PM
11060 P RW DIS 005 F 12-1PM
11061 P RW DIS 006 F 1-2PM
11065 P RW DIS 010 TH 6-7PM B137 MLB
15 seats reserved for freshmen.

18785 P RW DIS 011 F 10-11AM G127 AH
15 seats reserved for freshmen.
18788 P RW DIS 012 F 11-12PM LEC RM 2 MLB
15 seats reserved for freshmen.
18789 P RW DIS 013 F 12-1PM 1449 MH
15 seats reserved for freshmen.

102 Process & Effects 4.00 ENFORCED
- 11066 A R LEC 001 TTH 1-230PM AUD 4 MLB
  - 11067 P RW DIS 002 TH 7-8PM B134 MLB
  - 11068 P RW DIS 003 F 10-11AM 1245 NQ
  - 11069 P RW DIS 004 F 11-12PM 1245 NQ
  - 11070 P RW DIS 005 F 12-1PM 1245 NQ
  5 seats reserved for LSA Honors.

11071 P RW DIS 006 F 1-2PM 1245 NQ
11072 P RW DIS 007 F 2-3PM 1245 NQ
11073 P RW DIS 008 TH 6-7PM 1245 NQ
11074 P RW DIS 009 F 11-12PM 4152 USB
11075 P RW DIS 010 F 1-2PM 3242 LSA
15 seats reserved for freshmen.
18793 P RW DIS 011 F 2-3PM 2011 MLB
15 seats reserved for freshmen.
18794 P RW DIS 012 TH 6-7PM B134 MLB
15 seats reserved for freshmen.
18795 P RW DIS 013 TH 7-8PM 1245 NQ
15 seats reserved for freshmen.

251 Media Industries 4.00
- 11077 A LEC 001 MW 10-1130AM LEC RM 2 MLB
  - 11078 P W DIS 002 T 4-5PM 2271 AH
  - 11079 P W DIS 003 T 5-6PM 1185 NQ
  - 11080 P W DIS 004 T 6-7PM 4152 USB

261 Views on the News 4.00 ENFORCED
- 11081 A R LEC 001 MW 1-230PM G127 AH
  - 11082 P RW DIS 002 T 2-3PM 142 LORCH
  - 11083 P RW DIS 003 T 3-4PM 2245 NQ
  - 11084 P RW DIS 004 T 4-5PM 2436 MH

281 Media Psychology 4.00 ENFORCED
- 11085 A R LEC 001 TTH 1-230PM LEC RM 2 MLB

305 Survey Media Topics 4.00 ADVISORY
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**Notes:**
- Section reserved for declared Communication Studies majors.
- Cross-listed with Psych 318.001.
- Cross-listed with Psych 318.002.
- Cross-listed with Psych 318.003.
- Cross-listed with Psych 318.004.
- Section reserved for declared Communication Studies majors until 4/10/2017.
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## Comparative Literature Program

### Comparative Literature (COMPLIT)

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**Notes:**
- CR: Credits
- PREREQ: Prerequisites
- LAB FEE: Lab Fee
- ADVISORY: Advised for the course
- ENFORCED: Course enrollment is enforced
# Program Study of Complex Systems

## Complex Systems (CMPLXSYS)

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<tr>
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Students are auto-enrolled in lecture when they elect a discussion.

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- FA 2018 2210 05-03-2018 00:05 20532660
# Comprehensive Studies Program

**Comprehensive Studies Program (CSP)**

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This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

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Insiders & Outsiders

**Notes:**
- This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.
# English Language Institute

## English Language Institute (ELI)

ELI courses fall into three categories:
1. English for Academic Purposes courses for graduate students;
2. Language and teacher training courses for international GSIs;
3. Teacher training courses for students planning to teach ESL in local communities or abroad.

For assistance in choosing an appropriate course, please go to the ELI Academic Advising website: http://bit.ly/eliadvising or e-mail: eliadvisor@umich.edu to make an appointment to speak with an advisor.

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ELI 580 is a 10-week course.

ELI 592 is a 10-week course. Learn techniques and strategies for listening to spoken English in order to participate effectively in various formal and informal situations such as seminar discussions, lab meetings, office hours, lectures, and social interactions. Improve comprehension and confidence in spoken interactions.
## English Language & Literature Dept

### English Language And Literature (ENGLISH)

A student who misses either of the first two class meetings of an English course may be dropped from the course for non-attendance. All students must take action through the registration process to make sure that their official schedule matches the courses they are attending.

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U of M Schedule of Classes Page 174 of 456 FA 2018 2210 05-03-2018 00:05 20532660
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**First Year Seminar. Seats in First Year Seminars are opened gradually during Summer Orientation. Only first-year students, including those with sophomore standing, may register.**

**Climate and Humans**

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**Coral Reef Dynamics**

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**Env Impact Energy**

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**Intro Geography**

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To enroll in the Intro Oceanography Lab, enroll in any section of EARTH 223 Students are strongly encouraged to enroll in both EARTH 222 and 223.

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This course is intended primarily for undergraduate students from the School of Education who are specializing in Elementary Education, and for IDA concentrators in the Department of Astronomy. Preferred Admit students in
Elementary Education should email Michigan-Earth@umich.edu for an override. Please include your UM ID number.

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### Microbes in the Wild

This section meets Aug. 12 - Aug. 24 at the U-M Biological Field Station and is associated with EEB 401-001 (fall term on-campus lab). More info: https://lsa.umich.edu/umbs/students/courses/microbiology---eeb-401.html

Contact the dept. with questions.
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Economics Department

Economics (ECON)

101 Principles Econ I  4.00  ADVISORY

Students will be auto-enrolled in LEC 100 when they elect DIS 101-111.

There will be three midterms for this course: Tuesday October 9, 8:10 - 9:40 PM; Tuesday November 6, 8:10 - 9:40 PM; and Tuesday December 4, 8:10 - 9:40 PM. All exams must be taken on the assigned dates and times. If you cannot take these exams as scheduled, please register for an open section in another lecture of Econ 101. No exceptions will be made to these exam dates and times.

No overrides will be issued for this class.

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Students will be auto-enrolled in LEC 300 when they elect DIS 301-311.

There will be three midterms for this course: Dates TBD. All exams must be taken on the assigned dates and times. If you cannot take these exams as scheduled, please register for an open section in another lecture of Econ 101. No exceptions will be made to these exam dates and times.

No overrides will be issued for this class.

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Students will be auto-enrolled in section 100 when they elect sections 101-111. Midterm exams dates: TBD

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This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

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| 102 Principles Econ II | 4.00  ADVISORY

Students will be auto-enrolled in Econ 101 when they elect sections 101-111. Midterm exams dates: TBD

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This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.
## Topics Sem Intro Ec

- **Students will be auto-enrolled in section 200 when they elect sections 201-211.**
- **Midterm exams dates: TBD**

### Inter Micro Workshop

**208 Inter Micro Workshop**

- **208 Inter Micro Workshop**

### Intr Stat&Metric II

**251 Intr Stat&Metric II**

- **Students will be auto-enrolled in section 100 when they elect sections 101-102. This class will have evening exams on the following dates: TBD**

### Survey-Labor Econ

**320 Survey-Labor Econ**

### Econ of Education

**325 Econ of Education**

### American Industries

**330 American Industries**

### International Econ

**340 International Econ**

### Developing Economic

**360 Developing Economic**

### Topics in Macroecon

**396 Topics in Macroecon**

### Financial Markets&the Macro Ec

**398 Financial Markets&the Macro Ec**

### Intermed Micro Thry

**401 Intermed Micro Thry**

- **Students will be auto-enrolled in section 001 when they elect sections 002-013: Exam schedule:TBD.**

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### Excel in Econ&Business Analyt

To be eligible for this course, you must have already passed Econ 101 and ECON 102 with a C or better. Please email Olga Mustata (omustata@umich.edu) for override information.

Please note that this course does not count as an elective for the Economics major or minor.
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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The class will use the experience of the so-called Islamic State in Iraq and Syria (ISIS) to develop a plan for countering the ways in which extremist groups use social media to instigate acts of violence. The class structure will be collaborative and multidisciplinary. Class time will focus on providing background information on, and discussion about, the problem. Students will spend additional time outside of class meeting in groups, thinking through the problem, and doing research in the service of the final class project, which they will present at the end of the semester to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

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Students will be auto-enrolled in section 001 when they elect section 002.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This course will challenge students to develop creative approaches to reducing the risk of brain injury in youth and high school football. Students will work in multi-disciplinary teams, under the guidance of the instructors, to conceive and propose novel solutions that draw on insights from law, engineering, medicine, business, ethics, and other relevant fields. Each student team will address a specific sub-topic relative to the course theme. Sub-topics may include: What changes in the rules governing practices, participation, and play should be instituted? What kinds of protective and monitoring equipment should be used, and under what protocols? How should such equipment be financed and distributed?
Class time will focus on providing background information and discussion with topical experts. Students are expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This problem solving course will challenge a multidisciplinary team of students to address a real-world problem in the rapidly-evolving connected and automated vehicle landscape. The Detroit Metro area and the University of Michigan are leading the world in research and deploying technological advances in vehicle connectivity and automation. The potential benefits of “driverless cars” are widely understood, but the path to getting from the current state of human driving to a world of interconnected and “self-driving” vehicles entails an overwhelming confluence of technological, sociological, legal, regulatory, political, and business problems. This course will focus on one particular angle: the potential multiple problems created by the unavoidable future interactions between automated vehicles and other road users, such as non-automated, human-driven vehicles, pedestrians, and bicyclists. Classes will be run as discovery sessions with industry, governmental, and academic experts. Students working in multidisciplinary sub-teams will dive deeply into particular aspects of the problem with the course culminating in the creation of an integrated class deliverable in the form of a business or operational plan proposing concrete solutions to the problem.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In India -- as in many parts of the world -- economic growth and development have been key focus areas for successive governments. However, development often generates costs that force us to address difficult tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic well-being versus the potential threats to the environment and heritage preservation. For example, although India has obtained substantial economic growth in the last two decades, there has also been deterioration in several aspects of India’s heritage, as only a small fraction of pre-colonial monuments in India receive federal protection and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India’s Constitution and polity and gauge the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, history, property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India’s heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as
archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.
### Program in the Environment

#### Environment (ENVIRON)

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#### Intro Geology Lab

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Students who register for EARTH/ENVIRON 118 must also be enrolled in EARTH/ENVIRON 119.

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To enroll in the Intro Geology Lab, enroll in any section of EARTH/ENVIRON 118. Students are strongly encouraged to enroll in both EARTH/ENVIRON 119 and 118.

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First Year Seminar. Seats in First Year Seminars are opened gradually during Summer Orientation. Only first-year students, including those with sophomore standing, may register.

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STUDENTS ENROLLED IN DISCUSSION SECTION WILL BE AUTO-ENROLLED IN THE LECTURE.

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**Sust & Society**

**Food & Drink in MidE**

**Intro to Env Justice**

**Intro Oceanog**

**Intro Ocean Lab**

**General Ecology**

**Plants and People**

**Spec Prob&Res-Ugrad**

**Culture&Envir Topics**

**Eccocriticism**

**Rite's of Reading:Animal Story**

**Social Justice in Anthropocene**

**Interdis Env Topics**

**Global Water**

**Sustain & Health**

**GIS Explorations**

**Env Politics&Policy**

**Intro Env Politics**

**Global Water**

**Sustain & Health**

**GIS Explorations**

**Env Politics&Policy**

**Intro Env Politics**

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To enroll in the Intro Oceanography Lab, enroll in any section of EARTH/ENVIRON 233. Students are strongly encouraged to enroll in both EARTH/ENVIRON 232 and 233.

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# Germanic Languages & Lit Dept

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History Department

History (HISTORY)

--IT IS CRITICAL THAT STUDENTS ATTEND CLASS FROM THE BEGINNING OF THE TERM. ALTHOUGH STUDENTS MAY BE OFFICIALLY REGISTERED FOR A COURSE, THE DEPARTMENT MAY DISENROLL ANY STUDENT NOT ATTENDING THE FIRST TWO COURSE MEETINGS.

--DISCUSSION SECTIONS DO NOT MEET UNTIL AFTER FIRST LECTURE.

--STUDENTS ARE ENCOURAGED TO USE THE WAITLIST FOR ANY CLOSED COURSE. STUDENTS SHOULD REGISTER ON THE WAITLIST ACCORDING TO PREFERRED SECTION AND ATTEND THE FIRST CLASS. UP TO THE FIRST DAY OF CLASS, OVERRIDES WILL BE GIVEN BY THE DEPARTMENT AS SPACE BECOMES AVAILABLE. STUDENTS ARE NOTIFIED AND GIVEN TWO DAYS TO USE THE OVERRIDE, AFTER WHICH THE SPOT MAY GO TO AN ALTERNATE STUDENT ON THE WAITLIST. ONCE CLASSES HAVE STARTED, STUDENTS (WAITLISTED OR NOT) MUST CONTACT THE INSTRUCTOR FOR AN OVERRIDE.

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Section 011: Reserved for CSP students. Permission from a CSP advisor is required. If this section is closed, additional seats will open: June 6, June 26, and July 17.

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Freshmen are encouraged to take this introductory survey.

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This class will meet Friday, September 7, 2018 at 10:30 am in 2773 Haven to discuss future meeting dates.

Job Skills Colloquium
This class will meet in intervals, to be determined at the first session.

**Note:**
- **Teaching Practicum** is taught by Simmons.
- **Anthro/Hist Workshop** is taught by de la Cruz.
- **Diss Res/Writing Sem** is taught by French.
- **Prep for Prelims** and **Diss-Precand** are recommended courses.
- **Diss-Cand** is required for enrollment.
History Of Art Department

History of Art (HISTART)

NOTE - HISTORY OF ART DISCUSSION SECTIONS DO NOT MEET THE FIRST WEEK OF CLASSES.

194 First Year Seminar 3.00 ADVISORY
30510 P RW SEM 001 TTH 1130-1PM 49 UMMA Willette
Why Art? Behind the Scenes
28255 P RW SEM 002 TTH 1-230PM 130 TAP Robertson

201 Great Monuments 3.00
23411 PD W LEC 001 TTH 1-230PM 180 TAP

211 Gen&Pop Cul 4.00
28229 A LEC 001 MW 10-1130AM AUD B AH Ward
28230 P W DIS 002 W 12-1PM G026 TISCH
28231 P W DIS 003 W 1-2PM G026 TISCH
28232 P W DIS 004 W 2-3PM G026 TISCH
28233 P W DIS 005 TH 12-1PM G026 TISCH
28234 P W DIS 006 TH 1-2PM G026 TISCH
28235 P W DIS 007 F 10-11AM G040 TISCH
28236 P W DIS 008 F 11-12PM G040 TISCH
28237 P W DIS 009 F 12-1PM G040 TISCH

222 Intro Roman Arch 4.00
28049 A LEC 001 TTH 10-1130AM G127 AH Terrenato
28050 P W DIS 002 F 2-3PM 49 UMMA
28051 P W DIS 003 W 10-11AM 2163 AH
28052 P W DIS 004 TH 9-10AM 130 TAP
28053 P W DIS 005 W 9-10AM 3347 MH

244 Am Cent Art 1893-1968 3.00
22652 P W LEC 001 MW 1-230PM 180 TAP Zurier

250 Ital Renaissance Art 4.00
21795 S LEC 001 TTH 1130-1PM AUD D AH Holmes
21812 P W DIS 002 TH 1-2PM 49 UMMA
21813 P W DIS 003 TH 2-3PM 49 UMMA
21814 P W DIS 004 F 10-11AM G026 TISCH
21815 P W DIS 005 F 11-12PM G026 TISCH

255 Visual Mythology 3.00
25941 P W LEC 001 MW 10-1130AM G127 AH Simons

271 Modernism 4.00
11485 A LEC 001 TTH 1-230PM AUD D AH Lay
16191 P W DIS 002 W 1-2PM 130 TAP
16192 P W DIS 003 W 2-3PM 130 TAP
16193 P W DIS 004 W 3-4PM 130 TAP
22646 P W DIS 005 TH 10-11AM 180 TAP
16194 P W DIS 006 TH 11-12PM 180 TAP
25185 P W DIS 007 TH 12-1PM 180 TAP

285 Visual Culture Islam 4.00
26034 S LEC 001 MW 1130-1PM G127 AH Gruber
26035 P W DIS 002 W 3-4PM 2212 MLB
26036 P W DIS 003 F 11-12PM 180 TAP
30750 P W DIS 004 F 10-11AM 180 TAP

292 Intro Japanese Art 4.00
30764 S LEC 001 MW 1130-1PM LEC RM 1 MLB Carr
30765 P W DIS 002 M 1-2PM 130 TAP
30766 P W DIS 003 M 2-3PM 130 TAP
30767 P W DIS 004 W 10-11AM G026 TISCH
34014 P W DIS 005 T 12-1PM G026 TISCH

299 Experiential Study 1.00-3.00
SI IND + A RG 1.00-3.00

304 The Art of Yoga 3.00
26061 P W LEC 001 TTH 10-1130AM 2114 MLB Chanchani

323 Jewish Vis Culture 3.00
31356 P W LEC 001 TTH 230-4PM G580 DENT Neis

338 Representing Fashion 4.00
30751 S LEC 001 MW 230-4PM LEC RM 1 MLB Siegfried
30752 P W DIS 002 W 4-5PM G026 TISCH
30753 P W DIS 003 F 10-11AM 130 TAP
30754 P W DIS 004 F 11-12PM 130 TAP

343 God, Love, and War 3.00
28593 P W LEC 001 MW 1-230PM 180 TAP Chatterjee

348 Medieval Book 3.00
30536 P W LEC 001 MW 10-1130AM G040 TISCH Sears

352 Art and Philosophy 3.00
21203 P W SEM 001 MW 230-4PM 49 UMMA Willette

353 Meaning in Making 3.00 ADVISORY
28253 P W SEM 001 MW 1-230PM 210 TAP Simons
Visual Technologies

**Perspec Recent Art**
- Class: 377
- CR: 3.00
- Instructor: Potts
- Time: 1130-1PM
- Location: 180 TAP

**Greek Arch Sites**
- Class: 384
- CR: 3.00
- Instructor: Nevett
- Time: 830-10AM
- Location: 2336 MH

**China Human Rights**
- Class: 385
- CR: 3.00
- Instructor: Powers
- Time: 10-1130AM
- Location: 180 TAP

**Undergrad Seminar**
- Class: 393
- CR: 3.00
- Instructor: Brusati
- Time: 1130-1PM
- Location: 270 TAP

**Fakes and Forgeries**
- Class: 394
- CR: 3.00
- Instructor: Kee
- Time: 10-1130AM
- Location: 180 TAP

**Emoji Worlds**
- Class: 396
- CR: 3.00
- Instructor: Ward
- Time: 230-4PM
- Location: 210 TAP

**MagneticDipole:Mod Art Science**
- Class: 397
- CR: 3.00
- Instructor: Holmes
- Time: 230-4PM
- Location: 210 TAP

**The Fascinating Lives of Thi**
- Class: 398
- CR: 3.00
- Instructor: Powers
- Time: 10-1PM
- Location: 210 TAP

**LoveMarriageFamilyModernChina**
- Class: 399
- CR: 3.00
- Instructor: Kee
- Time: 230-4PM
- Location: 180 TAP

**Global Politics Contemp Art**
- Class: 400
- CR: 3.00
- Instructor: Gazda
- Time: 10-1130AM
- Location: 130 TAP

**Art and Life of Roman Villas**
- Class: 401
- CR: 3.00
- Instructor: McMahon
- Time: 230-4PM
- Location: 180 TAP

**Independent Study**
- Class: 402
- CR: 3.00
- Instructor: Silverman
- Time: 230-4PM
- Location: G026 TISCH

**African Things**
- Class: 403
- CR: 3.00
- Instructor: Zurier
- Time: 10-1130AM
- Location: 270 TAP

**Visual Culture Afr**
- Class: 404
- CR: 3.00
- Instructor: Silverman
- Time: 10-1130AM
- Location: 270 TAP

**Made in Detroit**
- Class: 405
- CR: 3.00
- Instructor: Brusati
- Time: 10-1PM
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**Greek Sculpture**
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- CR: 3.00
- Instructor: Herbert
- Time: 230-4PM
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**Greek Vase Paint**
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- CR: 3.00
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- Time: 10-1130AM
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**Monumental Greek Sculpture**
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- CR: 3.00
- Instructor: Lay
- Time: 4-7PM
- Location: 130 TAP

**Honor Colloquium**
- Class: 409
- CR: 3.00
- Instructor: Siegfried
- Time: 4-7PM
- Location: 49 UMMA

**Upper-Level Seminar**
- Class: 410
- CR: 3.00
- Instructor: Carr
- Time: 4-7PM
- Location: 270 TAP

**Beautiful Writing: East Asian**
- Class: 411
- CR: 3.00
- Instructor: Gruber
- Time: 4-7PM
- Location: 270 TAP

**Encounters with Islamic Art**
- Class: 412
- CR: 3.00
- Instructor: Chatterjee
- Time: 10-1130AM
- Location: 130 TAP

**Iconoclasm and its discontents**
- Class: 413
- CR: 3.00
- Instructor: Zurier
- Time: 1-230PM
- Location: 270 TAP

**Made in Detroit: Art & Culture**
- Class: 414
- CR: 3.00
- Instructor: Siegfried
- Time: 10-1PM
- Location: 210 TAP

**Independent Res**
- Class: 415
- CR: 3.00
- Instructor: Nevett
- Time: 1-230PM
- Location: G449 MH

**Prob Greek Arc**
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Westworld- Being Human

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Westworld- Being Human

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Westworld- Being Human

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| 32515 | REC 001 MW                       |    |        |         |

| 617  | Judaic Grad Topics               | 3.00 |        |
| 31250 | REC 001 T                         |    |        |         |

| 625  | Modern Jewish Lit               | 3.00 | ADVISORY |         |
| 32011 | SEM 001 TH                       |    |        |         |

**Yiddish (YIDDISH)**

| 101  | First Year Yiddish I           | 4.00 |        |
| 31350 | REC 001 MTWTH                   |    |        |         |

| 201  | 2nd Year Yiddish I             | 4.00 | ADVISORY |         |
| 31352 | REC 001 MW                       |    |        |         |

| 431  | Beg Yiddish 1-Grad              | 4.00 |        |
| 32541 | REC 001 MTWTH                   |    |        |         |

| 531  | Int Yiddish 1-Grad              | 4.00 | ADVISORY |         |
| 32542 | REC 001 MW                       |    |        |         |
College of Literature, Science, and the Arts

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Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2018 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Fall 2018 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

201 Intro to Intnl Studies 4.00

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LS&A First Year Seminars

Applied Liberal Arts (ALA)

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102 Student in the Univ

Limited to participants in MICHIGAN COMMUNITY SCHOLARS PROGRAM. CLASS MEETS SEPT 6 - NOV 15.

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104 Intro to Research

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105 Digital Research

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This class is taught entirely online.

106 Health & Health Care

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107 WISE RP Seminar

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ALA 107 classes begin the week of Sept 10. Enrollment restricted to FY WISE RP students.

In addition to the regular class times, there will be two required sessions on Tuesday evenings from 6:00-8:00pm
ALA 107 classes begin the week of Sept 10. Enrollment restricted to FY WISE RP students.

115 Finance Savvy Studnt

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In addition to the regular class times, there will be two required sessions on Tuesday evenings from 6:00-8:00pm
ALA 107 classes begin the week of Sept 10. Enrollment restricted to FY WISE RP students.

122 Intrgrp Dialogue

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Interested students must fill out an online request at www.igr.umich.edu. Due to high demand, students who do not attend the mass meeting on the first day of class will be dropped from the course. If you have questions, please contact Ant'Shay Thurman (phone: 936-1875; e-mail: antistay@umich.edu).

125 Internship Success

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BLI Leadership Lab
Please contact Julia Spears (jmspears) for information.

28787 P RW LEC 004 F | 10-12PM | A859 CHEM-TBLC | Owen-Smith |

U of M Schedule of Classes Page 218 of 456
BLI Leadership Lab
28788 P R LEC 005 M 7-9PM 110 WEISER-TBL Owen-Smith

BLI Peer Fac Training
28789 P RW LEC 006 T 6-8PM 110 WEISER-TBL Owen-Smith

BLI Leadership Lab
29027 P RW LEC 008 ARR ARR Owen-Smith

BLI Peer Leader
For permission into this class please contact Julia Spears (jmspears)

171 Make the Most of UM 1.00
27868 PIR SEM 001 W 1-3PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in West Quad, Asubuhi Lounge.
28704 P R SEM 002 W 5-30-730PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Markley, Sharanapani Lounge
28705 P R SEM 003 W 5-30-730PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in West Quad, G023.
28706 P R SEM 004 W 5-30-730PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Bursley, McGraham-Siwik Lounge.
28707 P R SEM 005 W 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Couzens, Living Room.
28708 P R SEM 006 W 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in East Quad, B834.
28709 P R SEM 007 W 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in East Quad, BB52.
28710 P R SEM 008 TH 1-3PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Newberry, Audre Lorde Lounge.
28711 P R SEM 009 TH 5-30-730PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Alice Lloyd, Room 2060.
28712 P R SEM 010 TH ARR ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in West Quad, G023.
28713 P R SEM 011 TH 5-30-730PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Couzens, Living Room.
28714 P R SEM 012 TH 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in Bursley, McGraham-Siwik Lounge.
28715 P R SEM 013 TH 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in South Quad, YK Lounge.
28716 P R SEM 014 TH 6-8PM ARR Gurin
This class will meet from the week of Sept 4 through Oct 20 in East Quad, BB52.

210 Def Crit Gbl Issues 2.00
27869 PD LEC 001 F 1-230PM ARR Peters
This class will meet in the West Quad Multi-Purpose room.

220 Foundations IGR 3.00 ENFORCED
20332 P RW SEM 001 TTH 1-230PM G127 AH Hicks
31144 P RW SEM 002 TTH 4-530PM 1460 MH

223 Entrepreneur Crtytvty 3.00
28829 A LEC 001 MW 11-12PM AUD A AH Fretz
28830 P W DIS 002 F 12-1PM B844 EH
28831 P W DIS 003 F 1-2PM 260 WEISER Pfeifer
28832 P W DIS 004 F 12-1PM 296 WEISER Chiu
28833 P W DIS 005 F 1-2PM G168 AH Cease
28834 P W DIS 006 F 1-2PM 260 WEISER Pfeifer
28835 P W DIS 007 F 1-2PM G040 TISCH Chiu
28836 P W DIS 008 F 12-1PM 2336 MH Cease
28837 P W DIS 009 F 1-2PM 1469 MH Kanitkar

225 Undergrad Internship 1.00
20158 PD SEM 001 ARR ARR Barron
31937 PD SEM 002 ARR ARR Barron
25754 PD SEM 099 ARR ARR Barron

228 Conflict & Coexist 3.00
28460 P R SEM 001 TTH 230-4PM 2062 PALM

230 STEM Transitions 1.00
31159 P RW SEM 001 TH 1-230PM 1359 MH Bass

250 Critical Issues 1.00 ENFORCED
26190 P RW LEC 001 TH 4-6PM 1112 SPH2 Dillard, Pituch, Sorensen
Critical Issues in Education
26196 P RW LEC 002 W 4-6PM 1460 MH Dillard, Pituch, Sorensen
Critical Issues in Health
26197 P RW LEC 003 T 4-6PM 1210 WEILL Dillard, Pituch, Sorensen
Critical Issues-Sustainability
26198 P RW LEC 004 M 4-6PM 2271 AH Dillard, Pituch, Sorensen
Critical Issues in Detroit
29398 P RW LEC 005 W 8-10AM 1024 DANA Dillard, Pituch
Critical Issues-Mental Health

256 Innovator’s Toolkit 3.00
28991 P R LEC 001 MW 4-530PM 4404 RAND Ludwig
25730 ALA Topics 1.00-3.00 ENFORCED
26457 P RW LEC 001 MW 1-230PM 2336 MH Moshin
The Art of Public Speaking
26458 P R LEC 002 TTH 10-1130AM 1100 OBL Moshin
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**Korean Studies (KRSTD)**

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**LSA II: Russian, East European & Eurasian Studies**

**Russian, East European and Eurasian Studies (REEES)**

**Course List**

- **214** Rock Poetry
- **350** Holocaust Legacy
- **395** Russ & Sov Un
- **403** Sr Honors Colloq
- **405** Topics in REEES
- **418** Islam and Russia
- **601** REEES Core Colloq
- **799** Master's Thesis
- **801** Directed Reading

**Instructors**

- Westwalewicz
- Aleksic
- Suny
- Holden
- Mamin
- Northrop
- Knysh
- King

**U of M Schedule of Classes Page 229 of 456 FA 2018 2210 05-03-2018 00:05 20532660**
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**LSA II: South Asian Studies**

**South Asian Studies (SAS)**

Anthropology of South Asia

Indep Study: S Asia

South Asia MA Essay
LSA II: South East Asian Studies

Southeast Asian Studies (SEAS)

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**International Studies (INTLSTD)**

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**Network Int'l Intern & Career**

Please note that this course meets for a total of 6 sessions on the following dates: Monday, September 10th, 17th, 25th, October 1st, 8th, and 22nd, 2018.

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31903 P RW LEC 002 TTH 4-530PM 1436 MH Vinea  

**385** *Intial Topics in SS*  
31717 P RW LEC 001 TTH 10-1130AM 210 WH Fehervary  
387 *Globalizing Consumer Cultures*  
31718 S R LEC 001 TTH 230-4PM 4390 DENT Stoneh  
31720 P R DIS 002 W 9-10AM 1507 NUB  
31724 P R DIS 003 W 12-1PM 1423 EQ  
31728 P R DIS 004 TH 9-10AM 1423 EQ  

**389** *Topics in CCI*  
26316 S RW LEC 002 TTH 10-1130AM 1200 CHEM Scott  
26318 P RW DIS 003 TH 12-1PM 5521 HH  
26319 P RW DIS 005 TH 1-230PM 2448 MH  

**401** *IS Advanced Seminar*  
26111 P RW SEM 001 MW 10-1130AM 355 WEISER Uehling  
26561 P RW SEM 002 MW 1-230PM 355 WEISER Uehling  
21375 P RW SEM 004 TTH 1-230PM 355 WEISER Marcum  
31475 P RW SEM 005 TTH 4-530PM 2040 RUTHVEN Fadlalla  
26154 P RW SEM 006 F 9-12PM 4449 MH Caulfield  
26199 P RW SEM 007 MW 230-4PM 355 WEISER Selcer  
31715 P RW SEM 008 TH 10-1130AM R2310 BUS Moll  

**489** *Advanced Topics*  
32001 P RW LEC 001 M 1-4PM 2024 TISCH Herwitz  

**491** *Directed Studies*  
498 *Senior Honors*  
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<p>| U of M Schedule of Classes Page 235 of 456 FA 2018 2210 05-03-2018 00:05 20532660 |</p>
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Lloyd Hall Scholars Program (LHSP)
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For permission to register, contact Maria Steele at msteele@umich.edu.

Macromolecular Science (MACROMOL)
Mathematics Department

Mathematics (MATH)

--MATH DEPARTMENT POLICY REQUIRES THAT STUDENTS ATTEND THE FIRST TWO CLASS MEETINGS (OR NOTIFY THE INSTRUCTOR IN ADVANCE OF THEIR ABSENCE) OR THEY MAY BE DROPPED FROM THE CLASS.

--STUDENTS SHOULD CHECK WOLVERINE ACCESS FOR SECTION AVAILABILITY AND SCHEDULE CHANGES.

MATH DEPARTMENT POLICY LIMITS STUDENTS TO A TOTAL OF 4 CREDITS FOR COURSES NUMBERED BELOW 111.

---

### Auto-enrollment midterm exam

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<tr>
<td>11547</td>
<td>PDR LEC 170</td>
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</table>

This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu. EVENING EXAMS: 6-8pm on Tues., Oct 9 and Tues., Nov 13. Avoid scheduling any class that conflicts with these exams.

### EVENING EXAMS: 6-8pm on Tues., Oct 9 and Tues., Nov 13.

Avoid scheduling any class that conflicts with these exams.

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U of M Schedule of Classes Page 238 of 456  FA 2018 2210 05-03-2018 00:05 20532660
<table>
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Evening exams for Math 115:  8-10pm on Mon., Oct 8 and Mon., Nov 12.  Avoid scheduling any class that conflicts with these exams.

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Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

11584 P LEC 047 M 1130-1PM 2427 MH
11584 P LEC 047 TTH 1130-1PM 2325 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23661 P LEC 048 TF 1130-1PM 2436 MH
23661 P LEC 048 W 1130-1PM 2437 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

24619 P LEC 049 TTH 1130-1PM 3460 MH
24619 P LEC 049 F 1130-1PM 3451 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23660 P LEC 050 MW 1130-1PM 2333 MH
23660 P LEC 050 TH 1130-1PM 2427 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23659 P LEC 051 MWF 1130-1PM 2449 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23666 P LEC 052 MTTH 1130-1PM 3451 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

24620 P LEC 053 TWF 1130-1PM 3556 MH
11585 P LEC 056 MWF 1130-1PM 3460 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23662 P LEC 057 MTTH 1130-1PM 2353 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23669 P LEC 058 TWF 1130-1PM 2347 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23665 P LEC 061 MWF 1-230PM 3302 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23663 P LEC 063 TF 1-230PM 3427 MH
23663 P LEC 063 W 1-230PM 3411 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23664 P LEC 064 TTHF 1-230PM 3314 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

17856 P LEC 065 M 1-230PM 3314 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23664 P LEC 068 TF 1-230PM 2436 MH
23664 P LEC 068 W 1-230PM 2437 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23644 P LEC 069 TTH 1-230PM 3460 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

23646 P LEC 070 MW 1-230PM 2333 MH
23646 P LEC 070 TH 1-230PM 2427 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

24622 P LEC 071 MWF 1-230PM 2449 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

24623 P LEC 072 MTTH 1-230PM 3451 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

25839 P LEC 073 TWF 1-230PM 3356 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

25840 P LEC 076 MWF 1-230PM 3460 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

25841 P LEC 077 MTTH 1-230PM 2353 MH

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

25842 P LEC 081 MWF 230-4PM 3302 MH

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This section is reserved for STEM-Comm learning communities. Please email Marybeth Bauer <bauermb@umich.edu> for permission to enroll.

Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

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23153 PDR LEC 172 MWF 1-3PM 1507 EQ Khumbah
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24779 PDR LEC 173 MWF 3-5PM 1507 EQ Khumbah
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu. Evening exams for Math 115: 8-10pm on Mon., Oct 8 and Mon., Nov 12. Avoid scheduling any class that conflicts with these exams.

28546 PDR LEC 174 TTH 1-3PM B860G EH

32583 A MID 199 M 8-10PM ARR
Auto-enrollment midterm exam

116 Calculus II 4.00 ADVISORY
11589 P LEC 001 WF 830-10AM 2353 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

116 Calculus II 4.00 ADVISORY
11590 P LEC 002 M 830-10AM 2437 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

116 Calculus II 4.00 ADVISORY
11591 P LEC 003 TF 830-10AM 3448 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

116 Calculus II 4.00 ADVISORY
11592 P LEC 004 TTHF 830-10AM 2437 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11593 P LEC 005 MWTH 830-10AM 3448 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11594 P LEC 009 TTHF 830-10AM 2333 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11595 P LEC 010 MWTH 830-10AM 2436 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11596 P LEC 011 M 10-1130AM 2347 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11599 P LEC 012 TTHF 10-1130AM 3314 MH 4.00 ADVISORY
Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

11600 P LEC 014 TTHF 10-1130AM 2437 MH 4.00 ADVISORY
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11601 P LEC 015 MWTH 10-1130AM 3448 MH 4.00 ADVISORY
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11602 P LEC 019 TTHF 10-1130AM 2333 MH 4.00 ADVISORY
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11604 P LEC 020 MWTH 10-1130AM 2436 MH 4.00 ADVISORY
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11605 P LEC 021 M 1130-1PM 2347 MH 4.00 ADVISORY
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24626 P LEC 022 TTHF 1130-1PM 2449 MH 4.00 ADVISORY
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Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

24001 PDR LEC 170 MWF 9-11AM 1096 EH Lofton
This section is by permission of CSP only. Contact CSP directly to request permission. Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

24780 PDR LEC 171 MWF 11-1PM 1096 EH Lofton
This section is by permission of CSP only. Contact CSP directly to request permission. Evening exams for Math 116: 6-8pm on Mon, Oct 8 and Mon, Nov 12. Avoid scheduling any class that conflicts with these exams.

Auto-enrollment for midterm exam

145 Houghton Calc Wkp I 2.00 ADVISORY
18194 PDW LAB 001 MW 3-5PM 2866 EH
18195 PDW LAB 002 TTH 1-3PM 1866 EH

147 Interest Theory 3.00 ADVISORY
11609 PD W LEC 001 MWF 12-1PM 2866 EH Hong
Permission off of the waitlist will be given in order of addition.

156 App Honors Calc II 4.00 ADVISORY
11610 PD W LEC 001 MTWF 10-11AM 1372 EH Krasny

11611 PD W LEC 002 MTWF 11-12PM 1372 EH Krasny

11612 PD W LEC 001 MWF 1-230PM 1339 MH
Registration in Math 185 is by Math department or Honors permission only.

11613 PD W LEC 002 MWF 2-3PM G168 AH
Registration in Math 185 is by Math department or Honors permission only.

175 Intro to Cryptology 4.00 ADVISORY
17153 PD W LEC 001 MW 10-1130AM 1866 EH Gazaki
175 Intro to Cryptology 4.00 ADVISORY
17043 PD W LEC 002 MW 1130-1PM 1866 EH Gazaki
This course is a First-Year Honors Seminar.
Students not in LSA Honors may contact the Department for information about enrolling in this class--math-undergrad-office@umich.edu

175 Intro to Cryptology 4.00 ADVISORY
17043 PD W LEC 002 MW 1130-1PM 1866 EH Gazaki
This course is a First-Year Honors Seminar.
Students not in LSA Honors may contact the Department for information about enrolling in this class--math-undergrad-office@umich.edu

185 Honors Calc I 4.00 ADVISORY
11612 PD W LEC 001 MWF 1-230PM 1339 MH
Registration in Math 185 is by Math department or Honors permission only.

185 Honors Calc I 4.00 ADVISORY
11612 PD W LEC 001 MWF 1-230PM 1339 MH
Registration in Math 185 is by Math department or Honors permission only.

214 App Linear Algebra 4.00 ADVISORY
16188 P RW LEC 001 MWF 1-2PM A859 CHEM-TBLC Speyer
214 App Linear Algebra 4.00 ADVISORY
16189 P RW LEC 002 MWF 2-3PM A859 CHEM-TBLC Strauss
Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.

214 App Linear Algebra 4.00 ADVISORY
21916 P RW LEC 003 MWF 3-4PM A859 CHEM-TBLC Strauss
214 App Linear Algebra 4.00 ADVISORY
21916 P RW LEC 003 TTH 3-4PM 1068 EH Prasanna
Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.

214 App Linear Algebra 4.00 ADVISORY
21916 P RW LEC 003 MWF 3-4PM A859 CHEM-TBLC Strauss
214 App Linear Algebra 4.00 ADVISORY
21916 P RW LEC 003 TTH 3-4PM 1068 EH Prasanna
Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.
Evening exams for Math 214: 6-8pm on Wed, Oct 3 and Mon, Oct 29. Avoid scheduling any class that conflicts with these exams.

22803  P RW LEC 005  TTH 6-8PM 1068 EH  Tokcan
Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.

Evening exams for Math 214: 6-8pm on Wed, Oct 3 and Mon, Oct 29. Avoid scheduling any class that conflicts with these exams.

**215 Multivar & Vector Calc** 4.00 ADVISORY

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Auto-enrollment midterm exam

| 20832 | A LEC 020 MWF | 8-9AM | 1640 CHEM | Farre Puiggali |

Evening exams for Math 214: 6-8pm on Wed, Oct 3 and Mon, Oct 29. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

| 20834 | P W LAB 022 T | 9-10AM | B735 EH |
| 20835 | P W LAB 023 T | 12-1PM | B735 EH |
| 20836 | P W LAB 024 T | 1-2PM | B735 EH |
| 32527 | A MID 025 TH | 6-8PM | A |
| 32527 | A MID 025 TH | 6-8PM | ARR |

Auto-enrollment midterm exam

| 11618 | A LEC 030 MWF | 9-10AM | 1360 EH | Farre Puiggali |
| 11619 | P W LAB 031 T | 8-9AM | B743 EH |
| 11620 | P W LAB 032 T | 9-10AM | B743 EH |
| 11621 | P W LAB 033 T | 12-1PM | B743 EH |
| 11622 | P W LAB 034 T | 2-3PM | B743 EH |
| 32531 | A MID 035 TH | 6-8PM | A |
| 32531 | A MID 035 TH | 6-8PM | ARR |

Auto-enrollment midterm exam

| 11623 | A LEC 040 MWF | 10-11AM | 1360 EH | Music |
| 11624 | P W LAB 041 T | 8-9AM | B737 EH |
| 11625 | P W LAB 042 T | 9-10AM | B737 EH |
| 11626 | P W LAB 043 T | 1-2PM | B737 EH |
| 11627 | P W LAB 044 T | 2-3PM | B737 EH |

Evening exams for Math 214: 6-8pm on Wed, Oct 3 and Mon, Oct 29. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.
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Auto-enrollment midterm exam

11620 A LEC 050 MWF 11-12PM 1360 EH Viswanath
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11629 P W LAB 051 TH 10-11AM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11630 P W LAB 052 TH 11-12PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11631 P W LAB 053 TH 3-4PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11632 P W LAB 054 TH 4-5PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

Auto-enrollment midterm exam

11633 A LEC 060 MWF 12-1PM 1360 EH Zaya
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11634 P W LAB 061 T 10-11AM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11635 P W LAB 062 T 11-12PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11636 P W LAB 063 T 3-4PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11637 P W LAB 064 T 4-5PM B737 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

Auto-enrollment midterm exam

11638 A LEC 070 MWF 1-2PM 1360 EH Zaya
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11639 P W LAB 071 TH 8-9AM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11640 P W LAB 072 TH 9-10AM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11641 P W LAB 073 TH 1-2PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11642 P W LAB 074 TH 2-3PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

Auto-enrollment midterm exam

11643 A LEC 080 MWF 2-3PM 1360 EH Ruan
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11644 P W LAB 081 TH 10-11AM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11645 P W LAB 082 TH 11-12PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11646 P W LAB 083 TH 3-4PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11647 P W LAB 084 TH 4-5PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

32539 A MID 085 TH 6-8PM ARR
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

Auto-enrollment midterm exam

11648 A LEC 090 MWF 3-4PM 1360 EH Ruan
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11649 P W LAB 091 T 10-11AM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11650 P W LAB 092 T 11-12PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11651 P W LAB 093 T 3-4PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

11652 P W LAB 094 T 4-5PM B735 EH
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 11 and Thurs, Nov 8. Avoid scheduling any class that conflicts with these exams. During the first week, labs do not meet before the first lecture.

32540 A MID 095 TH 6-8PM ARR
A MID 095 TH 6-8PM ARR
Auto-enrollment midterm exam

216 Intro Dif Equat 4.00 ADVISORY, ENFORCED

11653 A R LEC 010 MWF 9-10AM 2260 USB
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11654 P RW LAB 011 TH 8-9AM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11655 P RW LAB 012 TH 9-10AM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11656 P RW LAB 013 TH 1-2PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11657 P RW LAB 014 TH 2-3PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32576 A R MID 015 TH 8-10PM ARR
A R MID 015 TH 8-10PM ARR
Auto-enrollment midterm exam

11658 A R LEC 020 MWF 10-11AM 2260 USB Cianci
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11659 P RW LAB 021 TH 10-11AM B743 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11660 P RW LAB 022 TH 11-12PM B743 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11661 P RW LAB 023 TH 3-4PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11662 P RW LAB 024 TH 4-5PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32577 A R MID 025 TH 8-10PM ARR
A R MID 025 F 8-10PM ARR
Auto-enrollment midterm exam

11663 A R LEC 030 MWF 11-12PM 2260 USB Cianci
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11664 P RW LAB 031 T 8-9AM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11665 P RW LAB 032 T 9-10AM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11666 P RW LAB 033 T 1-2PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11667 P RW LAB 034 T 2-3PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32578 A R MID 035 TH 8-10PM ARR
A R MID 035 TH 8-10PM ARR
Auto-enrollment midterm exam

11668 A R LEC 040 MWF 12-1PM 2260 USB Zhang
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11669 P RW LAB 041 T 2-3PM B735 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11670 P RW LAB 042 T 3-4PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11671 P RW LAB 043 T 6-7PM B745 EH
EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11672 P RW LAB 044 T 7-8PM B745 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32579 A R MID 045 TH 8-10PM ARR
A R MID 045 TH 8-10PM ARR

Auto-enrollment midterm exam

11673 A R LEC 050 MWF 1-2PM 2260 USB Zhang

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11674 P RW LAB 051 TH 2-3PM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11675 P RW LAB 052 TH 3-4PM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11676 P RW LAB 053 TH 9-10AM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11677 P RW LAB 054 TH 8-9AM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32580 A R MID 055 TH 8-10PM ARR

Auto-enrollment midterm exam

11678 A R LEC 060 MWF 2-3PM 2260 USB

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11679 P RW LAB 061 T 10-11AM B745 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11680 P RW LAB 062 T 11-12PM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11681 P RW LAB 063 T 3-4PM B743 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

11682 P RW LAB 064 T 4-5PM B745 EH

EVENING EXAMS: 8-10pm on Thurs, Oct 18 and Thurs, Nov 15. Avoid scheduling any class that conflicts with these exams.

32581 A R MID 065 TH 8-10PM ARR
A R MID 065 TH 8-10PM ARR

Auto-enrollment midterm exam

217 Linear Algebra 4.00 ADVISORY

11683 P W LEC 001 MWF 830-10AM B735 EH Karp

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

11684 P W LEC 002 MWF 830-10AM B737 EH Bray

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

25722 P W LEC 003 MWF 1-230PM B745 EH Bibby

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

16347 P W LEC 004 MWF 10-1130AM B737 EH Karp

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

17383 P W LEC 005 MWF 10-1130AM B743 EH Bray

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

25721 P W LEC 006 MWF 1130-1PM B743 EH Schneider

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

22198 P W LEC 007 MWF 1130-1PM B737 EH Bibby

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

23188 P LEC 008 MWF 1130-1PM B745 EH

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

24579 P W LEC 009 MWF 1-230PM B735 EH Schneider

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

24580 P W LEC 010 MWF 1-230PM B737 EH Hamaker

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

24581 P W LEC 011 MWF 230-4PM B735 EH

Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

24582 P W LEC 012 MWF 230-4PM B737 EH Hamaker

U of M Schedule of Classes Page 249 of 456
Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

25720 P LEC 013 MWF 830-10AM B743 EH
Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

21510 P LEC 014 MWF 1130-1PM B735 EH
Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

11685 P W LEC 015 MWF 10-1130AM B745 EH
Evening exams for MATH 217: 6-8pm on Wed, Oct 17 and Wed, Nov 14. Avoid scheduling any class that conflicts with these exams.

32649 A MID 099 W 6-8PM ARR
A MID 099 W 6-8PM ARR

256 App Honors Calc IV 4.00 ADVISORY, ENFORCED
32596 P R LEC 001 MTWF 9-10AM 4096 EH
The department is not planning to open enrollment for this course.

285 Honor MultiV's Vector 4.00 ADVISORY
17154 P W LEC 001 230-4PM 2427 MH
Please add your name to the waitlist if you're interested in this section. Enrollment priority is given to students who have taken Math 186 or Math 176. Incoming freshmen must speak with an honors math advisor for permission into Math 285.

11686 P W LEC 002 MWF 11-12PM 1084 EH Tobasco
P W LEC 002 T 11-12PM 2234 USB
Please add your name to the waitlist if you're interested in this section. Enrollment priority is given to students who have taken Math 186 or Math 176. Incoming freshmen must speak with an honors math advisor for permission into Math 285.

11687 P W LEC 003 MWF 12-1PM 1068 EH Tobasco
P W LEC 003 T 12-1PM G160 AH
Please add your name to the waitlist if you're interested in this section. Enrollment priority is given to students who have taken Math 186 or Math 176. Incoming freshmen must speak with an honors math advisor for permission into Math 285.

286 Hnr Diff Equations 3.00 ADVISORY, ENFORCED
28551 P RW LEC 001 MWF 230-4PM 2009 RUTHVEN
Please add your name to the waitlist if you're interested in this section. Enrollment priority is given to students who have taken Math 285. All other students must receive permission from the instructor or an Honors Advisor.

289 Problem Seminar 1.00 Montgomery
26587 P W SEM 001 W 4-5PM 3096 EH

295 Honors Math I 4.00 ADVISORY
11688 PD W LEC 001 MW 230-4PM 269 WEISER Koch
Registration in Math 295 is by Math department or Honors permission only.

312 Appl Mod Algebra 3.00 ADVISORY
18159 P W LEC 001 TTH 10-1130AM 3866 EH Koch
Please add your name to the waitlist if you're interested in this section. Enrollment priority is given to students who have taken Math 285. All other students must receive permission from the instructor or an Honors Advisor.

316 Differential Equatn 3.00 ADVISORY, ENFORCED
11689 P RW LEC 001 MWF 1-2PM 4088 EH Miller
20871 P RW LEC 002 MWF 2-3PM 4086 EH Miller
34041 P RW LEC 003 MWF 2-3PM 4096 EH

351 Princ of Analysis 3.00 ADVISORY
19319 P LEC 001 MW 230-4PM 2455 MH Canary
Please add your name to the waitlist AND contact Professor Richard Canary (canary@umich.edu). Math 351 primarily consists of sophomore and junior students of mathematics from LSA and SOE.

371 Num Meth Engr 3.00 ADVISORY
11690 P W LEC 001 TTH 12-130PM 2166 DOW Esedoglu
16311 P W LEC 002 TTH 1030-12PM 2166 DOW Esedoglu

385 Elem Sch Teach 3.00 ADVISORY
11691 P RW LEC 001 MW 1-230PM 3088 EH Canton
11692 P RW LEC 002 MW 230-4PM 3088 EH Canton

395 Honors Analysis I 4.00 ADVISORY
11693 PD W LEC 001 MW 1-230PM 269 WEISER Barrett
Students with the prereq (296) should add to the waitlist in order to receive an override. Students without this prerequisite should speak with an Honors Advisor for permission.

399 Independent Reading 1.00-6.00
SI IND + ARR
ARR

404 Intern Diff Eqns 3.00 ADVISORY
11695 P W LEC 001 MW 830-10AM 335 WH Doering
IF YOU ARE A MATH CONCENTRATOR YOU MUST SIGN UP FOR MATH 404 NOT PHYS 413 or CMPLXSYS 541 TO RECEIVE CREDIT

412 Intro Mod Algebra 3.00 ADVISORY
11696 P W LEC 001 MW 830-10AM B743 EH Karimian Pour
Evening exam for Math 412: Wed., Oct 17, 6:30-9pm. Avoid scheduling any class that conflicts with this exam.

11697 P W LEC 002 MW 10-1130AM 3096 EH Karimian Pour
Evening exam for Math 412: Wed., Oct 17, 6:30-9pm. Avoid scheduling any class that conflict with this exam.

33890 P W LEC 004 MW 230-4PM B743 EH Smith

417 Matrix Algebra I 3.00 ADVISORY
11698 P W LEC 001 MW 10-11AM 2866 EH Winter
11699 P W LEC 002 MW 9-10AM 1084 EH Griess Jr
11700 P W LEC 003 MW 12-1PM 4096 EH Winter
11701 P LEC 004 MW 2-3PM 3096 EH

419 Lin Sp Matrix Thy 3.00 ADVISORY
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Evening exam for Math 423: Thurs., Oct 25, 6-8pm. Avoid scheduling any class that conflicts with this exam.

ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Preference will be given to Actuarial and Financial Math majors.

Evening exam for Math 423: Thurs., Oct 25, 6-8pm. Avoid scheduling any class that conflicts with this exam.

ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Preference will be given to Actuarial and Financial Math majors.

Evening exam for Math 423: Thurs., Oct 25, 6-8pm. Avoid scheduling any class that conflicts with this exam.

ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Actuarial majors who are waitlisted will be given preference to register.

Please add your name to the wait list, preference will be given to Math majors.

ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Actuarial majors who are waitlisted will be given preference to register.

Please add your name to the wait list, preference will be given to Math majors.

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Please add your name to the wait list. Preference will be given to juniors and seniors in the secondary teaching certificate program.

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Please add your name to the wait list. Preference will be given to juniors and seniors in the secondary teaching certificate program.
Please add your name to the wait list AND contact Professor Richard Canary (canary@umich.edu).

493 Honors Algebra I 3.00 ADVISORY
20467 P W LEC 001 MW 1-230PM 218 HUTCH Montgomery
Students who have taken or are registered for 395 should add to themselves to the wait list in order to receive an override. Other students please speak with the instructor or an Honors Advisor.

497 Topics Elem Math 3.00 ADVISORY
11714 P RW LEC 001 MW 230-4PM 471 LORCH Boland
Exploring Middle School Math
497 is for Undergrad Ed students only

499 Independent Reading 1.00-4.00 ADVISORY
SI IND ARR 11717 P RW LEC 001 F 3-4PM 4088 EH
AIM Seminar for Math AIM Students only

501 AIM Student Sem 1.00 ADVISORY
11716 P RW LEC 001 TTH 1130-1PM 3906 EH Moore
Enrollment by waitlist only, limited to declared Actuarial Math majors who have completed prerequisites (Math 424 and 425).Overrides will be given once registration has ended. If you are taking 424 and/or 425 in Spring/Summer, please add your name to the wait list once you've completed the course. We will review the wait list again at the end of the summer.

520 Life Contin I 3.00 ENFORCED
11717 PDRW LEC 001 TTH 1-230PM 3096 EH Moore
Enrollment by waitlist only, limited to declared Actuarial Math majors who have completed prerequisites (Math 424 and 425).Overrides will be given once registration has ended. If you are taking 424 and/or 425 in Spring/Summer, please add your name to the wait list once you've completed the course. We will review the wait list again at the end of the summer.

523 Loss Models I 3.00 ENFORCED
20360 P RW LEC 001 TTH 830-10AM 1084 EH
ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY AND IS LIMITED TO DECLARED ACTUARIAL MATH MAJORS. Overrides will be given once registration has ended.

525 Probability 3.00 ADVISORY
11718 P W LEC 001 TTH 830-10AM 271 WEISER Barvinok
ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Waitlist preference will be given to financial and honors math undergrads and AIM students. The wait list will be reviewed after the end of the Winter term.

493 Honors Algebra I 3.00 ADVISORY
20467 P W LEC 001 MW 1-230PM 218 HUTCH Montgomery
Students who have taken or are registered for 395 should add to themselves to the wait list in order to receive an override. Other students please speak with the instructor or an Honors Advisor.

497 Topics Elem Math 3.00 ADVISORY
11714 P RW LEC 001 MW 230-4PM 471 LORCH Boland
Exploring Middle School Math
497 is for Undergrad Ed students only

499 Independent Reading 1.00-4.00 ADVISORY
SI IND ARR 11717 P RW LEC 001 F 3-4PM 4088 EH
AIM Seminar for Math AIM Students only

501 AIM Student Sem 1.00 ADVISORY
11716 P RW LEC 001 TTH 1130-1PM 3906 EH Moore
Enrollment by waitlist only, limited to declared Actuarial Math majors who have completed prerequisites (Math 424 and 425). Overrides will be given once registration has ended. If you are taking 424 and/or 425 in Spring/Summer, please add your name to the wait list once you've completed the course. We will review the wait list again at the end of the summer.

520 Life Contin I 3.00 ENFORCED
11717 PDRW LEC 001 TTH 1-230PM 3096 EH Moore
Enrollment by waitlist only, limited to declared Actuarial Math majors who have completed prerequisites (Math 424 and 425). Overrides will be given once registration has ended. If you are taking 424 and/or 425 in Spring/Summer, please add your name to the wait list once you've completed the course. We will review the wait list again at the end of the summer.

523 Loss Models I 3.00 ENFORCED
20360 P RW LEC 001 TTH 830-10AM 1084 EH
ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY AND IS LIMITED TO DECLARED ACTUARIAL MATH MAJORS. Overrides will be given once registration has ended.

525 Probability 3.00 ADVISORY
11718 P W LEC 001 TTH 830-10AM 271 WEISER Barvinok
ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Waitlist preference will be given to financial and honors math undergrads and AIM students. The wait list will be reviewed after the end of the Winter term.

558 Appl Nonlinear Dyn 3.00 ADVISORY
17624 P W LEC 001 TTH 230-4PM 1449 MH
Wait list priority given to Actuarial/Financial Math undergrads and Quantitative Finance & Risk Management Master's students, then other math majors.

561 Linear Pro I 3.00 ADVISORY
11721 P LEC 001 MW 9-1030AM 1010 DOW Lee
Preference is given to Math PhD students.

565 Comb & Graph Theory 3.00 ADVISORY
11722 P LEC 001 TTH 10-1130AM 1437 MH

568 Math & Comp Neurosci 3.00 ENFORCED
27320 P RW LEC 001 MW 10-1130AM 3088 EH

571 Num Lin Algebra 3.00 ADVISORY
11723 P RW LEC 001 TTH 830-10AM 2866 EH Borcea

573 Fin Math I 3.00 ADVISORY
24641 P RW LEC 001 TTH 1-230PM 4404 RAND Bayraktar
This course is reserved for Quantitative Finance & Risk Management Master's students.

591 Differentiable Manif 3.00 ADVISORY
11724 P W LEC 001 MWF 10-11AM 4153 USB Uribé-Ahumada
Enrollment for this course is by wait list only. Preference will be given to Math PhD students.

593 Algebra I 3.00 ADVISORY
11725 P W LEC 001 MWF 2-3PM 3866 EH DeBacker
Enrollment for this course is by wait list only. Overrides for non-Math PhD students will not be given until the end of August.
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Prerequisites: Differential equations (e.g. Math 316); probability theory (e.g. Math 525/526, Stat 515); numerical analysis (Math 471 and Math 472); mathematical finance (Math 423 and Math 542/IOE 552, Math 506 or permission from instructor); programming (e.g. C, Matlab, Mathematica, Java).
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### Molecular, Cellular, and Developmental Biology (MCDB)

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**Molecular, Cellular, and Developmental Biology (MCDB)**

- **300 Undergrad Research**: ADVISORY
- **306 Genetics Laboratory**: ADVISORY, ENFORCED (80.00)
- **310 Intro Biochemistry**: ADVISORY, ENFORCED
- **399 Experimental Design**: ADVISORY
- **400 Advanced Research**: ADVISORY, ENFORCED
- **401 Advanced Topics**: ADVISORY
- **403 Molec Biol Synapse**: ADVISORY, ENFORCED
- **409 Invest Exp Bacteriol**: ENFORCED
- **421 Topics in Neurobio**: ADVISORY
- **423 Neurobiology Lab**: ADVISORY, ENFORCED (150.00)
- **424 Behav Neurobio Lab**: ADVISORY, ENFORCED (90.00)
- **427 Molecular Biology**: ENFORCED
- **428 Cell Biology**: ENFORCED
- **436 Human Immunology**: ENFORCED
- **441 Cell Bio & Disease**: ADVISORY
- **448 Telomerase Function**: ENFORCED
- **450 Genetics & Mol Biol**: ENFORCED
- **489 Genes & Genomes**: ENFORCED

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**Notes**:
- Lectures and labs begin Monday, Sept. 10. Places must be claimed at the beginning of the first lab meeting. Three extra hours per week will be required in addition to the scheduled labs.
- Labs begin Monday, Sept. 10. Places must be claimed at the beginning of the first lab meeting.
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Open to concentrators only.

Open to senior concentrators only.
# Philosophy Department

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**Interested students are encouraged to join the waitlist. Any decision about adding sections will be made based upon the number of students on the waitlist.**

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**Note:** No credit will be given to students who took PHIL 160.010 in Fall 2014.
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Physics Department
Physics (PHYSICS)

--A STUDENT WHO DOES NOT ATTEND THE FIRST MEETING OF A BIOLOGY, CHEMISTRY, OR PHYSICS LAB MAY BE DROPPED FROM THAT COURSE FOR NON-ATTENDANCE. ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION PROCESS TO MAKE SURE THAT THEIR OFFICIAL COURSE SCHEDULES MATCH THE COURSES THEY ARE ATTENDING.

--WAITLIST THROUGH WEB REGISTRATION AND THEN CHECK WITH THE PHYSICS STUDENT SERVICES OFFICE FOR PROCEDURES.

PHYSICS LABS 127, 128, 141, & 241 DON'T START UNTIL THE FIRST FULL WEEK OF CLASSES.

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A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

Students must elect PHYSICS 141 as the corresponding lab. Evening midterm exams for this course take place at 6:00-8:00 p.m. on the following Thursdays: Oct. 4, Nov. 1, and Nov. 29. Please avoid any conflicts with the midterm exam times. A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

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Students must elect PHYSICS 141 as the corresponding lab. Evening midterm exams for this course take place at 6:00-8:00 p.m. on the following Thursdays: Oct. 4, Nov. 1, and Nov. 29. Please avoid any conflicts with the midterm exam times. A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

19495 P R LAB 133 W 1-3PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

28503 P R LAB 134 W 3-5PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

28504 P R LAB 136 W 7-9PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

11768 P R LAB 141 TH 8-10AM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

11769 P R LAB 143 TH 1-3PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

11770 P R LAB 144 TH 3-5PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

11771 P R LAB 151 F 8-10AM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

19064 P R LAB 152 F 10-12PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

28505 P R LAB 153 F 1-3PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

28506 P R LAB 154 F 5-7PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

28507 P R LAB 155 F 5-7PM 1221 RAND
A laptop will be required to complete some of the course assignments for PHYSICS 140 and 141. Students with concerns or questions about this requirement should email physics.sso@umich.edu.

160 Honors Physics I
Students should elect Physics 161 (or 141) as the corresponding lab. 4.00 ADVISORY

161 Honors Mechanics Lab
1.00 ADVISORY 25.00

235 Phy Life Sciences II
4.00 ADVISORY

236 Life Sciences Lab II
1.00 ADVISORY 25.00

240 General Physics II
4.00 ADVISORY

U of M Schedule of Classes Page 267 of 456
Students should elect PHYSICS 241 as the corresponding lab.

20411 200 MTWTH 10-11AM 170 WEISER Winn

Students should elect PHYSICS 241 as the corresponding lab.

20412 P W LEC 300 MTWTH 11-12PM 170 WEISER Winn

Students should elect PHYSICS 241 as the corresponding lab.

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### 370 PhysChem Princip

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### 391 Modern Physics Lab

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The Physics Department does not anticipate opening additional sections of PHYSICS 391. If there is only one 391 section that will fit into a schedule of required coursework and there are no open seats, students are invited to email physics.sso@umich.edu to join a department-maintained waitlist for that section. Please include a name, UMID, and the three-digit section number for the class you wish to wait for. If a seat opens in that section, students will receive a permission enroll in PHYSICS 390-391 together.

---

The Physics Department does not anticipate opening additional sections of PHYSICS 391. If there is only one 391 section that will fit into a schedule of required coursework and there are no open seats, students are invited to email physics.sso@umich.edu to join a department-maintained waitlist for that section. Please include a name, UMID, and the three-digit section number for the class you wish to wait for. If a seat opens in that section, students will receive a permission enroll in PHYSICS 390-391 together.

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The Physics Department does not anticipate opening additional sections of PHYSICS 391. If there is only one 391 section that will fit into a schedule of required coursework and there are no open seats, students are invited to email physics.sso@umich.edu to join a department-maintained waitlist for that section. Please include a name, UMID, and the three-digit section number for the class you wish to wait for. If a seat opens in that section, students will receive a permission enroll in PHYSICS 390-391 together.

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The Physics Department does not anticipate opening additional sections of PHYSICS 391. If there is only one 391 section that will fit into a schedule of required coursework and there are no open seats, students are invited to email physics.sso@umich.edu to join a department-maintained waitlist for that section. Please include a name, UMID, and the three-digit section number for the class you wish to wait for. If a seat opens in that section, students will receive a permission enroll in PHYSICS 390-391 together.
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**299 POLSCI Internship**

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U of M Schedule of Classes Page 272 of 456
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24763 P W DIS 004 TH 5-6PM G449 MH
24765 P W DIS 005 TH 6-7PM 2347 MH
24796 P W DIS 007 F 10-11AM 1155 NO
24798 P W DIS 008 F 11-12PM 4332 SPH2
24800 P W DIS 009 F 12-1PM 3265 USB
24802 P W DIS 010 F 1-2PM 1170 SPH2
30653 P W DIS 011 F 9-10AM G437 MH

27857 P W REC 001 TTH 1-230PM 1460 MH Inglehart
The Evolution of Civilizations
24563 P W REC 002 MW 10-1130AM 1449 MH Hall
Interest Groups in Natl Polit
25160 P W REC 003 MW 1-230PM 1401 MH Chen
Supreme Ct&Constitutional Law
26497 P W REC 004 TTH 4-530PM 1518 NUB Joshi
Comp.Nationalism&Ethnic Politi
25752 P W REC 005 TTH 1-230PM 2260 USB Rivers
Campaigns and Elections
27877 P W REC 006 TTH 4-530PM 3463 MH Peel
Law, Culture, and Identity
29096 P W REC 008 M 6-9PM 1449 MH Winkler
International Legal Theory

398 Topics 3.00 ADVISORY
The Latino Vote
Students who took POLSCI 489 “Politics of Latinidad” in Fall 2017 will not be permitted to take this class.
391 Modeling Pol Proc 4.00 ADVISORY
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
17674 A LEC 001 MW 8-10AM AUD B AH Page
18207 P R DIS 002 TH 5-6PM G437 MH
18208 P R DIS 003 TH 4-5PM G449 MH
18209 P R DIS 004 W 4-5PM 3451 MH
21471 P R DIS 005 W 5-6PM 3451 MH
32041 P DIS 006 W 3-4PM 1155 NO
32040 P DIS 010 W 2-3PM B804 EQ

392 Inside Washington DC 1.00
395 Russ&Sov Un 4.00 10.00
11857 A LEC 001 TTH 230-4PM 260 WEISER Suny
Russia and the Soviet Union
24005 P W DIS 002 TH 11-12PM 455 WEISER Holden
11858 P W DIS 003 TH 12-1PM 455 WEISER Mamin
11859 P W DIS 004 F 12-1PM 455 WEISER Mamin
15893 P W DIS 005 F 10-11AM 455 WEISER Holden
397 Nations&Nationalism 4.00
30865 A LEC 001 MW 230-4PM 1202 SEB Suny
30866 P W DIS 002 TH 1-2PM 2752 SSWB
30867 P W DIS 003 TH 3-4PM 5179 AH
30868 P W DIS 004 TH 4-5PM 1448 MH
32420 P W DIS 005 F 11-12PM 2040 RUTHVEN
32421 P W DIS 006 F 12-1PM 4152 USB

398 Wash Internship 2.00
399 Adv Internship 3.00 ADVISORY
7-9PM ARR
407 Marxism&Radicalism 3.00 ENFORCED
31751 P RW REC 001 MW 1-230PM 1449 MH Tyler
421 Law and Gender 3.00 ADVISORY, ENFORCED
30141 P RW SEM 001 T 3-6PM 1060 EH Brandwein
486 Pub Opin&Press Grps 3.00 ENFORCED
30314 P RW LEC 001 TTH 10-1130AM G378 DENT Hutchings
489 Adv Tpcs in Pol Sci 3.00-4.00 ADVISORY
6-9PM LEY RM 1 MLB Titunik
Causal Inference PS Research
27842 P W REC 001 TTH 5-7PM 530-7PM G127 AH Markovits
27841 P W REC 002 TTH 4-530PM Titunik
GermanPolit: Europe Since 1945
28574 P W REC 003 MW 1-230PM 755 WEISER Zeisberg
Abolitionism&The US Constitutn
31792 P W REC 005 MW 230-4PM 2114 MLB Fernandes
Gender & Globalization
29006 P W REC 006 TTH 10-1130AM 3741 CCRB Zeisberg
What is Law?
30315 P W REC 008 T 9-12PM G160 AH Davenport
Pop Struggle
31835 P W LEC 009 TTH 230-4PM 506 BMT Lachapelle
Authoritarianism&State Repress
31933 P W LEC 010 MW 4-530PM G449 MH Pitcher
ComparUrbanPoliticDevCountries
492 Directed Studies 1.00-6.00 ADVISORY

U of M Schedule of Classes Page 273 of 456 FA 2018 2210 05-03-2018 00:05 20532660
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This course will be titled "Political Psychology".
Political Geography
Critique and Critical Theory from Kant to Foucault
Sexual & Gender-based Violence
Science Communication
20thC French&Anglo-Am Feminism

U of M Schedule of Classes Page 274 of 456 FA 2018 2210 05-03-2018 00:05 20532660
Psychology Department

Psychology (PSYCH)

---IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS ARE REGISTERED OFFICIALLY FOR A COURSE, THE DEPARTMENT MAY REQUEST THAT THEY BE DISENROLLED IF THEY DO NOT ATTEND INITIAL CLASSES.

111 Intro to Psych

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Students are auto-enrolled in Lec 030 when they elect a Dis 031-042.

11872 P RW DIS 031 W 5-6PM 142 LORCH

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

17602 P RW DIS 033 TH 8-9AM B830 EQ

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

20428 P RW DIS 039 F 10-11AM B1570 BUS

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

14040 P RW LEC 060 TTH 1-3PM AUD 3 MLB Schreier

Psych 111-060 - Register for lecture only; there are no discussion sections for this lecture. Do not contact the instructor. Direct all questions to psych.saa@umich.edu.

21357 P RW LEC 061 TTH 1-3PM AUD 3 MLB Schreier

Psych 111-061 LEC meets with Psych 111-060 LEC. Psych 111-061 is ONLY for students CURRENTLY ENROLLED IN THE SCHOOL OF NURSING. All other students should register or waitlist for Psych 111-060, or another Psych 111 or Psych 112 Lecture.

112 Psy as Natl Science

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Students are auto-enrolled in Lec 001 when they elect a Dis 002-013.

21229 P RW DIS 002 W 8-9AM 4088 EH

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

21230 P RW DIS 002 W 8-9AM 4088 EH

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

21231 P RW DIS 003 W 9-10AM 373 LORCH
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

21232 P RW DIS 004 W 3-4PM 271 WEISER
21233 P RW DIS 005 W 5-6PM 373 LORCH Malley
21234 P RW DIS 006 W 6-7PM 1372 EH
21235 P RW DIS 007 W 7-8PM 271 WEISER
21236 P RW DIS 008 TH 9-10AM 335 WH
21237 P RW DIS 009 TH 11-12PM B856 EQ
21238 P RW DIS 010 TH 12-1PM 2334 SEB
21239 P RW DIS 011 F 8-9AM 271 WEISER
21240 P RW DIS 012 F 9-10AM 1405 EQ
21241 P RW DIS 013 F 10-11AM 2334 SEB
31391 P RW SEM 001 MW 10-1130AM 3021 EH Rowley
31392 P RW SEM 002 MW 1-230PM 1509 NUB Wellman
31393 P RW SEM 003 MW 1130-1PM 471 LORCH Rabinowitz
32605 P W DIS 017 W 12-1PM B804 EQ
32606 P W DIS 018 W 4-5PM B684 SSWB
32607 P W DIS 019 TH 8-9AM B684 SSWB

120 Sem in Psy-Soc Sci 3.00 ADVISORY

11873 P RW SEM 001 MW 10-1130AM 3021 EH Education and Inequality
24805 P RW SEM 002 MW 1-230PM 1509 NUB Scientists in the Crib

Psych 120-002 meets in the Pillsbury Room, East Hall. Take the elevator located at the Church St., Psych side entrance of East Hall to floor "4M".
28091 P RW SEM 003 MW 1130-1PM 471 LORCH Rabinowitz
Psych Perspectives of Politics
24806 P RW SEM 004 TTH 10-1130AM 1509 NUB Rabinowitz
Psych Perspectives of Politics
Psych 120-004 meets in the Pillsbury Room, East Hall. Take the elevator located at the Church St., Psych side entrance of East Hall to floor "4M".
23050 P RW SEM 005 MW 8-30-10AM 3021 EH Schreier
Devel thru Children's Lit
31372 P RW SEM 006 T 9-12PM 3254 EH Meaningful Leadership
31373 P RW SEM 007 M 5-8PM 1060 EH Psych 120-007 Topic Title: Meaningful Leadership of Self and Others

31374 P RW SEM 008 TH 9-12PM 3254 EH The Psychology of Violence
31375 P RW SEM 009 TTH 1130-1PM 3021 EH Graham-Bermann
31376 P RW SEM 010 MW 230-4PM 3021 EH Jodl

Emerging Adulthood
31380 P RW SEM 001 TTH 1130-1PM 1507 NUB Meaningful Leadership
The Biopsychology of Sports
31381 P RW SEM 002 TTH 1130-1PM 1507 NUB Sustain: Can Psy Save Planet?

Psych 121-002 meets in the Pillsbury Room, East Hall. Take the elevator located at the Church St., Psych side entrance of East Hall to floor "4M".
31382 P RW SEM 003 TTH 10-1130AM 3021 EH Cognitive Sci of Acad Success
31383 P RW SEM 004 TTH 1-230PM 3021 EH Cognitive Sci of Acad Success
31384 P RW SEM 005 TTH 4-530PM 3021 EH Cognitive Sci of Acad Success
34259 P RW SEM 006 MW 10-1130AM 1507 NUB Cognitive Sci of Acad Success
Psych 121-006 Topic Title: Thinking
122 Intrgrp Dialogue 3.00 ADVISORY

Note: Interested students must fill out an online request at www.igr.umich.edu. Due to high demand, students who do not attend the mass meeting on the first day of class will be dropped from the course. If you have questions, please contact Anti'Shay Thurman (phone: 936-1875; e-mail: antistay@umich.edu).

122 Intrgrp Dialogue 3.00 ADVISORY
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**220 Intro Biopsych**

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**225 Psy Human Sexuality**

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**226 UG Psych Research**

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Res Meth in Cog NS

Psych 302 counts as a Methods Lab for Psych and BCN Majors.

Psych 306 admission requires a short application, which may be completed here: myumi.ch/aZdQK

Psych 306 admission requires a short application, which may be completed here: myumi.ch/aZdQK

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A required training will be held the first week of classes.

Psych 308 meets in the Pillsbury Room, East Hall.
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College of L S & A Residential College

Humanities (RCHUMS)

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Romance Languages Department

Catalan (CATALAN)

291 Intr Catalan Lg/Cult 3.00 ENFORCED
27709 P RW REC 001 TTH 10-1130AM B115A MLB Colli Ramirez
27710 P RW REC 002 TTH 1130-1PM B115A MLB Colli Ramirez

French (FRENCH)

--A student who misses either of the first two meetings of any course offered by the Department of Romance Languages may be dropped from the course for non-attendance.
--Students with any previous study of French must take the French placement test before enrolling. Placement test dates are online at:
www.lsa.umich.edu/rll/undergraduate/languageplacement/languageplacementtests.
--All students must take action through the registration system to make sure that their official schedule of courses matches the courses they are attending.

101 Elementary 4.00 ADVISORY, ENFORCED
11365 P RW REC 001 MTTHF 8-9AM B109 MLB
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
21376 P RW REC 003 MTTHF 9-10AM B109 MLB
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
24691 P RW REC 005 MTTHF 11-12PM B109 MLB
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
11366 P RW REC 007 MTTHF 12-1PM B109 MLB
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
21888 P RW REC 009 MTTHF 1-2PM 373 LORCH
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
19907 P RW REC 013 MTTHF 3-4PM B109 MLB
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.
28841 P RW REC 015 MTTHF 4-5PM G040 TISCH
For students with no previous study or by placement. Students with any previous study of French or prior instruction in French must take the placement test before enrolling.

102 Elementary Review 4.00 ENFORCED
25784 P RW REC 001 MTTHF 9-10AM 2212 MLB
30253 P RW REC 003 MTTHF 11-12PM 2212 MLB

103 Elementary Review 4.00 ENFORCED
22071 P RW REC 001 MTTHF 8-9AM 2407 MH
21406 P RW REC 003 MTTHF 9-10AM 3437 MH
21889 P RW REC 007 MTTHF 10-11AM B111 MLB
19908 P RW REC 009 MTTHF 12-1PM B111 MLB
21377 P RW REC 013 MTTHF 1-2PM B111 MLB
27563 P RW REC 015 MTTHF 2-3PM B111 MLB
30254 P RW REC 018 MTTHF 3-4PM 2407 MH
24694 P RW REC 021 MTTHF 4-5PM 2407 MH

231 Second Year 4.00 ENFORCED
11367 P RW REC 001 MTTHF 8-9AM B111 MLB
26350 P RW REC 002 MTTHF 8-9AM 2330 MH
21378 P RW REC 003 MTTHF 9-10AM B111 MLB
22718 P RW REC 004 MTTHF 9-10AM 3401 MH
27564 P RW REC 007 MTTHF 10-11AM B109 MLB
27565 P RW REC 010 MTTHF 11-12PM 2044 RUTHVEN
17115 P RW REC 013 MTTHF 12-1PM 1511 EQ
17116 P RW REC 017 MTTHF 1-2PM B109 MLB
25785 P RW REC 018 MTTHF 1-2PM B834 EQ
17117 P RW REC 023 MTTHF 3-4PM 2412 MLB
31979 P RW REC 024 MTTHF 3-4PM B137 MLB
24695 P RW REC 025 MTTHF 4-5PM G144 AH
26351 P RW REC 027 MTTHF 4-5PM B111 MLB

232 Second Year 4.00 ENFORCED
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23373 P RW REC 004 MTTHF 9-10AM 1508 EQ
23772 P RW REC 010 MTTHF 10-11AM B137 MLB
11368 P RW REC 007 MTTHF 11-12PM B137 MLB

Stories and Storytelling

11368 P RW REC 007 MTTHF 11-12PM B137 MLB
Gabaron

Food in French Society

11368 P RW REC 007 MTTHF 11-12PM B137 MLB
Gordon
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**Italian (ITALIAN)**

-- A student who misses either of the first two meetings of any course offered by the Department of Romance Languages may be dropped from the course for non-attendance.

-- Students with any previous study of Italian must take the Italian placement test before enrolling. Placement test dates are online at: www.lsa.umich.edu/rtl/concminors/frhonors.html for more information.

-- All students must take action through the registration system to make sure that their official schedule of courses matches the courses they are attending.
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Italian Comics

topic section: Italian Comics

270  Italian Lit & Cult

333  Dante's Div Comedy

346  Italian Internship

374  Topics in Ital Lit

422  Politics &Lit

491  Sr Honors Thesis

533  Dante's Comedy

635  Independent Study

735  Independent Study

895  Independent Study

990  Diss-Precand

995  Diss-Cand

See www.lsa.umich.edu/rll/concminors/ithonors.html for more information.

Portuguese (PORTUG)

101  Elementary

231  Second-Year

250  Port Rom Lang Spkrs

301  Afro-Luso-Brazil Cult

335  Independent Study

491  Senior Honors

498  Senior Seminar RLL

528  Teach Rom Lang

681  Intro Grad Study

993  GSI Train Wksp

Romance Languages and Literatures (ROMLANG)

491  Senior Honors

498  Senior Seminar RLL

528  Teach Rom Lang

681  Intro Grad Study

993  GSI Train Wksp

Romance Linguistics (ROMLING)

298  Intro Spanish Ling

333  Techn Pronunciation

See www.lsa.umich.edu/rll/concminors/ithonors.html for more information.

Brazilian Culture/Times Crisis

Students who are interested in enrolling in this course but have not completed Portuguese 287 should contact the instructor.

635  Independent Study

735  Independent Study

895  Independent Study

990  Diss-Precand

995  Diss-Cand

See www.lsa.umich.edu/rll/concminors/ithonors.html for more information.

Portuguese (PORTUG)

101  Elementary

231  Second-Year

301  Afro-Luso-Brazil Cult

491  Senior Honors

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Romance Linguistics (ROMLING)

298  Intro Spanish Ling

333  Techn Pronunciation

See www.lsa.umich.edu/rll/concminors/ithonors.html for more information.
### Spanish (SPANISH)

-- A student who misses either of the first two meetings of any course offered by the Department of Romance Languages may be dropped from the course for non-attendance.

-- Students with any previous study of Spanish must take the Spanish placement test before enrolling. Placement test dates are online at:
  [www.lsa.umich.edu/rll/undergraduate/languageplacement/languageplacementtests](http://www.lsa.umich.edu/rll/undergraduate/languageplacement/languageplacementtests).

-- All students must take action through the registration system to make sure that their official schedule of courses matches the courses they are attending.

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### Intensive 2nd Year

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**Conozcamos Argentina!**

topic section: **Conozcamos Argentina! An imaginary trip through literature**

- **25805** P RW REC 069 MTTHF 4-5PM 1512 NUB
- **30278** P RW REC 071 MTTHF 4-5PM B109 MLB

**277 Rdg, Grammar, & Comp**

- **21382** P RW REC 001 MWF 8-9AM B134 MLB
- **26372** P RW REC 002 MWF 8-9AM B135 MLB
- **21383** P RW REC 004 MWF 9-10AM B134 MLB
- **24704** P RW REC 005 MWF 9-10AM B135 MLB
- **24709** P RW REC 006 MWF 9-10AM 2202 MLB
- **27560** P RW REC 008 MWF 10-11AM B134 MLB
- **30280** P RW REC 009 MWF 10-11AM B135 MLB
- **25790** P RW REC 012 MWF 11-12PM 1505 EQ
- **24710** P RW REC 013 MWF 11-12PM B135 MLB
- **27561** P RW REC 014 MWF 11-12PM 1507 NUB
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- **24712** P RW REC 017 MWF 12-1PM B135 MLB
- **25167** P RW REC 018 MWF 12-1PM 1507 NUB
- **25762** P RW REC 020 MWF 1-2PM B134 MLB
- **30281** P RW REC 021 MWF 1-2PM 1650 CHEM
- **29610** P RW REC 023 MWF 2-3PM B109 MLB
- **23482** P RW REC 024 MWF 2-3PM B134 MLB
- **25791** P RW REC 025 MWF 3-4PM B135 MLB
- **24714** P RW REC 026 MWF 3-4PM 1096 EH
- **24716** P RW REC 030 MWF 4-5PM B134 MLB
- **24075** P RW REC 031 MWF 4-5PM B135 MLB

**280 Conv Sp/LAm Film**

- **31794** P RW REC 001 MWF 11-12PM 1650 CHEM
- **27598** P RW REC 004 MWF 10-11AM 2407 MH
- **27681** P RW REC 005 MWF 12-1PM 1636 CHEM

**283 Sp-Professions**

- **17623** P RW REC 001 TTH 830-10AM
- **30318** P RW REC 002 TTH 1-230PM

**287 Written Expression**

- **31083** P RW REC 001 MW 1130-1PM
- **28165** P RW REC 001 TTH 1-230PM

**289 Intro to Translation**

- **30319** P RW REC 003 MW 830-10AM

**291 Intr Catalan Lg/Cult**

- **27749** P RW REC 001 TTH 10-1130AM
- **27750** P RW REC 002 TTH 1130-1PM

**295 Intro Hispanic Lits**

- **22582** P RW REC 001 MWF 9-10AM
- **30320** P RW REC 002 MWF 10-11AM
- **30420** P RW REC 005 MWF 2-3PM
- **27858** P RW REC 008 MWF 1-2PM

**296 Spec Topics Lit&Cul**

- **26333** P RW REC 001 MWF 12-1PM

**298 Intro Spanish Ling**

- **30399** P RW REC 001 TTH 10-1130AM
- **27697** P RW REC 003 TTH 1-230PM

**299 Intro Internship**

- **333 Techn Pronunciation**
- **337 Poetry Workshop**

**355 New World Spanish**

- **30397** P RW REC 001 MW 10-1130AM

**373 Topics Hisp Studies**

- **32958** P RW REC 001 TTH 1-230PM
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Writing 100 is designed to help students of all levels improve their writing, but is best suited to those who have yet to fulfill the First-Year Writing Requirement. Upper-level students should have a compelling academic reason for enrolling in Writing 100.

Normal waitlist procedures apply for students who attend the first two classes. Students who wish to join Writing 100 after the first two class sessions must email the instructor to set up a meeting to discuss enrolling. Based on this discussion, the student and instructor will then make a determination on whether or not it is appropriate for the student to enroll.

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### SRC-PSM Graduate Program

**Survey Methodology (SURVMETH)**

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<td>Contact: <a href="mailto:michpsm.isr@umich.edu">michpsm.isr@umich.edu</a> with questions. All students interested in survey methodology are encouraged to take this course.</td>
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**NOTE** - ALL NON-LANGUAGE COURSES TAUGHT IN ENGLISH, EXCEPT WHERE NOTED.

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This mini-course takes place every Thursday, September 6 through October 18.
Cultures of Ukraine

This mini-course takes place every Tuesday and Thursday, October 25 through December 11. It is a 2-credit mini-course.

312 Cnt Eur Cinema
21260 A LEC 001 TTH 2-3PM 1300 CHEM Eagle
21261 A LAB 002 W 7-9PM AUD A AH Eagle
21262 P W DIS 003 TH 3-4PM 1300 CHEM Eagle
21263 P W DIS 004 F 12-1PM 3310 MLB Dibble
21264 P W DIS 005 TH 4-5PM 4128 LSA Marko
32956 P DIS 006 F 11-12PM 3359 MH

313 Russia/Ukraine Film
28451 P W LEC 001 MW 230-4PM 296 WEISER Eagle
28452 A LAB 002 T 7-9PM LEC RM 1 MLB Eagle

315 Field Work
I IND + ARR ARR 1.00-3.00 ADVISORY

395 Russ&Sov Un
11958 A LEC 001 TTH 230-4PM 260 WEISER Suny

Ukrainian (UKR)

151 1st Year Ukrainian
21257 P W REC 001 MTWTH 12-1PM 5000 STB Bondarenko

251 2nd Year Ukrainian
28431 P RW REC 001 MTWTH 12-1PM 5000 STB Bondarenko

351 3rd Year UKR I
30298 P R REC 001 TTH 230-4PM 3304 MLB Rogovyk

Ukrainian for Russian Speakers

421 Dir Reading UKR Lit
I IND + ARR ARR 3.00 ADVISORY

450 Internship-Ukraine
I IND + ARR ARR 1.00 ADVISORY

551 First-Year UKR I
21258 P W REC 001 MTWTH 12-1PM 5000 STB Bondarenko

553 Second-Year UKR I
28434 P RW REC 001 MTWTH 12-1PM 5000 STB Bondarenko

555 Third-Year UKR I
32283 P R REC 001 TTH 230-4PM 3304 MLB Rogovyk
# Sociology Department

## Sociology (SOC)

--IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE DEPARTMENT MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE FIRST TWO COURSE MEETINGS.

--TO ASSIST THE STUDENT IN SELECTING COURSES, PAST COURSE SYLLABI ARE AVAILABLE AT:  [www.lsa.umich.edu/soc/syllabi](http://www.lsa.umich.edu/soc/syllabi).

### 100 Intro to Sociology

**STUDENTS ARE AUTO-ENROLLED IN LEC 001 WHEN THEY ELECT A DIS (002-011).**

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### 102 Intro Soc: Topics

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### 122 Intrgrp Dialogue

Note: Interested students must fill out an online request at [www.igr.umich.edu](http://www.igr.umich.edu). Due to high demand, students who do not attend the mass meeting on the first day of class will be dropped from the course. If you have questions, please contact Anti'Shay Thurman (phone: 936-1875; e-mail: antistay@umich.edu).

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"Open Seats" may not accurately reflect the number of seats available in a discussion section. See the FAQ at https://sites.lsa.umich.edu/projectcommunity/ for more information.

ED: Ann Arbor Public Schools
Ann Arbor Public Schools
27482 | P W DIS 003 Political Econ       | 11-12PM | 210 WH | Rothwell |

PH: Jewish Family Services
Jewish Family Services (Override Required)
27488 | P W DIS 009 Political Econ       | 11-12PM | 1437 MH | Lane |

PH: Carrot Way Community Cntr
Avalon Housing Community Centers
27490 | P W DIS 011 Political Econ       | 11-12PM | 210 WH | Rothwell |

PH: Peace Neighborhood Center
Peace Neighborhood Center
27491 | P W DIS 012 Political Econ       | 11-12PM | 210 WH | Rothwell |

PH: Farm at St. Joe's
Farm at St. Joe's
27493 | P W DIS 014 Political Econ       | 12-1PM  | 1437 MH | Lane |

PH: Unified HIV Health&Beyond
Unified Health & Beyond
27494 | P W DIS 015 Political Econ       | 12-1PM  | 180 TAP | Rothwell |

PH: Shelter Assoc of Washtenaw
Shelter Association of Washtenaw/Food Gatherers
27495 | P W DIS 016 Political Econ       | 12-1PM  | 180 TAP | Rothwell |

PH: Health Ambassadors
Project Healthy Schools
27496 | P W DIS 017 Political Econ       | 12-1PM  | 180 TAP | Rothwell |

PH: Planned Parenthood
Planned Parenthood
27497 | PD DIS 018 Political Econ         | 11-12PM | 2185 NQ | Lane |

CJ: Prison-Creative Writing
Gus Harrison Prison - Creative Writing (Override Required)
27498 | PD DIS 019 Political Econ         | 11-12PM | 2185 NQ | Lane |

CJ: Jail(M&W)-Creative Writing
Washtenaw County Jail - Creative Writing (Override Required)
27499 | PD DIS 020 Political Econ         | 11-12PM | 2185 NQ | Lane |

CJ: Jail(M&W)-Art Workshop
Washtenaw County Jail - Art (Override Required)
260 | Social Dynamics                  | 3.00|         |        |

21210 | P RW LAB 001 Social Dynamics     | 10-1130AM | 755 WEISER | Shaw |

295 | Topics in Sociology             | 3.00|         |        |

31220 | P W LEC 002 Topics in Sociology | 230-4PM | 1401 MH | Levine |

300 | Principles & Problems            | 3.00|         |        |

19402 | P RW LEC 001 Principles & Problems | 1-230PM | 1401 MH | McGinn |

302 | Intro Soc: Hlth & Soc            | 4.00|         |        |

25861 | A LEC 001 Intro Soc: Hlth & Soc | 10-1130AM | AUD C AH | Burgard |

303 | Race & Ethnicity                 | 4.00| ADVISORY|        |

30123 | A LEC 001 Race & Ethnicity       | 230-4PM | 260 WEISER | Lacy |

30401 | P W DIS 002 Race & Ethnicity     | 5-6PM  | 4128 LSA |        |
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**Notes:**
- U: Advisory
- ADVISORY: Professor consent required
- ENFORCED: Enforced by thesis committee
--IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE
REGISTERED OFFICIALLY FOR A COURSE, THE DEPARTMENT MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE
FIRST TWO COURSE MEETINGS.

150 Making Sense of Data
   28394 P W LEC 001 TTH 830-10AM AUD C AH Miller 3.00

250 Intr Stat&Data Anlys
   14506 S LEC 001 TTH 1130-1PM AUD 3 MLB Gunderson 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   18796 S LEC 002 MWF 10-11AM AUD 4 MLB Romero 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   14507 S LEC 003 MWF 1-2PM AUD 3 MLB Fink 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   14508 S LEC 004 MWF 230-4PM AUD 4 MLB Romero 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   22660 S LEC 005 TTH 230-4PM AUD 4 MLB Gunderson 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   14510 S LEC 006 TTH 830-10AM AUD 4 MLB Gunderson 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   14511 S LEC 007 M 830-10AM G444B MH 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm
   Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
   14512 S LEC 008 M 10-1130AM G444B MH 4.00
   Exam 1 Thursday 10/18 6-7:30 pm
   Exam 2 Thursday 11/15 6-7:30 pm

If you have any questions, please contact stats-permissions@umich.edu
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Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

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Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

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Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.

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Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact statstudentservices@umich.edu.

Labs taught in 2244 USB are Bring Your Own Laptop labs.

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Final Exam Thursday 12/13 7:30-9:30pm

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Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14547 P W LAB 038 W 10-1130AM G444C MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14539 P RW LAB 039 W 1130-1PM G444B MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14546 P W LAB 040 W 1130-1PM G444C MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14540 P W LAB 041 W 1-230PM G444B MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14541 P W LAB 042 W 1-230PM G444C MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14545 P RW LAB 043 W 230-4PM G444B MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
14523 P W LAB 044 W 230-4PM G444C MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
16405 P RW LAB 045 W 4-530PM G444B MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm
Labs taught in 2244 USB are Bring Your Own Laptop labs.

16406 P W LAB 046 W 4-530PM G444C MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

16407 P W LAB 047 W 530-7PM G444B MH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

16408 P RW LAB 048 M 830-10AM B760 EH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

16907 P RW LAB 049 M 10-1130AM B760 EH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

16974 P RW LAB 050 M 1130-1PM B760 EH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

17917 P W LAB 051 M 530-7PM B760 EH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

17918 P RW LAB 052 M 1-3PM 2302 SEB Romero
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

This lab is a CSP lab. CSP sections are scheduled for more hours per week than a routine section of the same course. Some of that time is devoted to workshop activities, e.g., problem solving, practice tests, review of assignments and instruction in learning skills. There is also provision for more individual instruction in the form of additional office hours, instructor conferences, appointments with a Course Assistant, etc.

Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu.
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Labs taught in 2244 USB are Bring Your Own Laptop labs.

Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30 pm

If you have any questions, please contact stats-permissions@umich.edu
Labs taught in 2244 USB are Bring Your Own Laptop labs.
22676 P W LAB 063 T 830-10AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22677 P W LAB 064 T 10-1130AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22678 P W LAB 065 T 1130-1PM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22679 P W LAB 066 W 830-10AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22680 P W LAB 067 W 10-1130AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22681 P W LAB 068 W 1130-1PM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22682 P W LAB 069 T 830-10AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22683 P W LAB 070 TH 530-7PM ARR
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22684 P W LAB 071 M 4-530PM B743 EH
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22685 P W LAB 072 W 830-10AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22686 P W LAB 073 W 10-1130AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22687 P W LAB 074 W 1130-1PM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22688 P W LAB 075 W 830-10AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu

Labs taught in 2244 USB are Bring Your Own Laptop labs.
22689 P W LAB 076 W 10-1130AM 2244 USB
Exam 1 Thursday 10/18 6-7:30 pm
Exam 2 Thursday 11/15 6-7:30 pm
Final Exam Thursday 12/13 7:30-9:30pm

If you have any questions, please contact stats-permissions@umich.edu
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This field-based class is taught in residence at the University of Michigan Biological Station (UMBS) in Pellston, Michigan from May 21-June 2, 2018.

ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Waitlist preference will be given to Financial Math and AIM students. The wait list will be reviewed after the end of the Winter term.

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### Office of International Programs

#### Study Abroad (STDABRD)

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**Medicine**

**Division of Anatomical Science**

**Anatomy (ANATOMY)**

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### Notes:
- Students are required to provide their own laptop for class.
- Labs meet bi-weekly starting the 2nd week of class.
- Class is held Monday, August 27th through Friday, August 28th 9am-4pm in SPH I room 3755.
- To be held in room 2813/2817 MS II.
- Class will meet in room 2813/2817 MS II.

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U of M Schedule of Classes Page 328 of 456 FA 2018 2210 05-03-2018 00:05 20532660
Biological Chemistry Department

Biological Chemistry (BIOLCHEM)

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Please note that section 002 will meet at the same time/days/location of section 001 - MWF 8-9am in 1250 USB.

Contact ChemicalBiology@umich.edu for registration inquiries. Section 002 is intended for MS Cancer Chemical Biology students; section 001 is intended for PhD students.

Class meets Mon-Wed in 4560C MSRB II

Class will meet on Medical Campus, Room 4560C MSRB 2
Program in Biomedical Sciences

Biomedical Sciences (PIBS)

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Courses arranged by student. Must complete required number by end of term.  
Class will meet Wednesdays, starting Sept. 5 in room 2901 Taubman Health Science Library.  
This course is for PhD level students only. Class will meet Wednesdays, starting Sept. 5 in room 2901 Taubman Health Science Library. Thursday class will be held in the OGPS Lounge, Room 2950.  
You must be a first year PIBS graduate student to be enrolled in this course. See Canvas Class website schedule for details.
# Cancer Biology Graduate Program

**Cancer Biology (CANC BIO)**

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This course meets every Wednesday from 4 -5 pm

Location: 2813/2817 Med Sci II

INSTRUCTOR: Lyssiotis, Crawford
### Cell and Developmental Biology

**Cell and Developmental Biology (CDB)**

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**MEETS OCT 7 - NOV 11.**

Lectures are located in North Lecture Hall, Med Sci II.

*PhD students will have preference over Masters students and undergraduate students for enrollment.

### Cell Biology

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# Cellular and Molecular Biology

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**IND + ARR**

MUST BE A PIBS, CMB, OR GENETICS TRAINING GRANT STUDENT TO REGISTER!!

"Wiring the Nervous System in Health and Disease"

- Sep 25 - 3pm (M3330 MS I)
- Sep 27 - 3pm (M3330 MS I); 4pm (SLH)
- Nov 13 - 3pm (M3330 MS I); 4pm (NLH)
- Nov 20 - 3pm (M3330 MS I); 4pm (NLH)
- Nov 27 - 3pm (M3330 MS I); 4pm (NLH)

**990 Diss-Precand**

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**CLASS # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR**

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| U of M Schedule of Classes Page 333 of 456 | | | | | }
### Dermatology Department

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Human Genetics Department

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Recitations on Mondays from 5:00-6:00 pm and on Tuesdays from 12:00-1:00 pm. Optional for students.
### Int Med-General Medicine

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### Department of Learning Health Sciences

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**Medical School Administration**

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Microbiology And Immunology

Microbiology (MICRBIOL)

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Students who join the waitlist will be auto-issued a permission within 24 hrs. and will be able to register themselves at that time.

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This lecture is for Genetics Training Program current and past trainees. Class meets every other Monday.

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Micro Grad Students Only

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This course is designed for undergraduate and graduate students interested in pursuing independent research. The course content covers advanced topics in microbiology and immunology, including the latest research findings and methodologies. Students will have the opportunity to work on individual research projects under the guidance of experienced faculty members.

Students who join the waitlist will be auto-issued a permission within 24 hrs. and will be able to register themselves at that time.

Students are encouraged to consult with their advisors to determine the best course of study and to ensure that they meet all prerequisite requirements.
# Neurology Department

## Neurology (NEUROL)

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499 Ug Neurol Res I IND + ARR ARR
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781 Research IND + ARR ARR
782 Research IND + ARR ARR
Center For Neuroscience

Neuroscience (NEUROSCI)

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As an educational activity and the Center (and as a NGP faculty), I am conducting a combined reading/lecture course (NS-704) this upcoming semester on "The Cognitive Neuroscience of Consciousness." The study of consciousness is sometimes decomposed into "levels of consciousness" (awake vs. asleep vs. anesthetized vs. comatose) and "states of consciousness" (assuming I am already conscious, why do I see a blue triangle rather than a red square?). We will explore both of these dimensions and likely have some visiting lecturers/discussants to help us along the way.

The subject of consciousness motivated many of us to choose the field of neuroscience. I hope you will join me next month as we explore a fascinating question that has scientific, philosophical, clinical, and even existential implications. Even if you don't want to formally sign up for the course, you are welcomed to attend and participate.

What: NS704, The Cognitive Neuroscience of Consciousness
Who: Neuroscience and psychology students (and other interested people)
When: Fall semester, Wednesdays at Noon (pizza will be served!)
Where: Medical School, Med-Sci I, 7th floor conference room (#7433D)
Neurosurgery

Neurosurgery (NEUSURG)

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# Pathology Department

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**Notes:**
- IND indicates independent study
- ARR indicates arrangements
- CR indicates credit hours
- PREREQ indicates prerequisites
- LAB FEE indicates laboratory fees
Pediatrics & Comm Diseases Dep

Pediatrics (PEDIAT)

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# Pharmacology Department

## Pharmacology (PHRMACOL)

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Meets in room 5915 Buhl.

| 330  | Neuro Pharm UG Res           | 1.00-3.00| ADVISORY, ENFORCED |
| 430  | Neuro Pharm UG Res           | 1.00-3.00| ADVISORY, ENFORCED |

| 501  | Chemical Biology I           | 3.00|         |
| 19123| PD SEM 001 MWF 8-9AM 1250 USB|    | Koutmos, Palfey, Koutmos |
| 29453| PD SEM 002 MWF 8-9AM ARR     |    | Koutmos, Palfey, Palfey |

Contact ChemicalBiology@umich.edu for registration inquiries. Section 002 is intended for MS Cancer Chemical Biology students; section 001 is intended for PhD students.

Please note that section 002 will meet at the same time/days/location of section 001 - MWF 8-9am in 1250 USB.

## Intr Sci Comm

| 502  | Intr Sci Comm                | 2.00| ADVISORY |
| 23929| PD LEC 001 TH 1-3PM ARR      |    | Isom, Osawa, Goforth, Offord, Wong, Jenkins, Ono, Spindler, Brenner, Ragsdale, Tall, Burke, Anantharam, Adili, Tourdot, Nelson |

Meets in room 2901 THSL and various small group break-out rooms (to be announced). Priority enrollment is reserved for doctoral students in the Medical School?14 programs under PiBS. Contact Lisa Garber (lfletch@umich.edu) with your UMID number for permission to enroll.

## Signal Transduction

| 581  | Signal Transduction         | 2.00| ADVISORY |
| 14370| P W LEC 001 T 2-4PM 7745 MSC2 |    | Rui, Xu, Yin, Lee, Mortensen |

## Independent Study

| 600  | Independent Study            | 1.00-8.00| ADVISORY |
| 27091| D IND + ARR ARR             |    | Gnegy, Osawa |

Meets in room 2901 THSL.

## Quant Prin Pharm

| 601  | Quant Prin Pharm             | 3.00| ADVISORY |
| 23945| P DIS 001 MWF 9-10AM ARR     |    | Iniguez-Lluhi, Jenkins, Smrcka, Maybaum, Osawa, Beg, Stanczyk |

Meets in room 2901 THSL.

## Practical Statistics

| 603  | Practical Statistics        | 1.00| ADVISORY |
| 26569| P LAB 001 W 2-330PM ARR     |    | Jutkiewicz, Iniguez-Lluhi |

Meets in room 5215 THSL. (Note: On 9/27 class will be from 1:00pm-2:30pm). Email lfletch@umich.edu for permission.

## Collab Proj Phrm Sci

| 604  | Collab Proj Phrm Sci        | 1.00| ADVISORY |
| 27091| P SEM 001 ARR ARR           |    | Gnegy, Osawa |

This course is limited to students appointed to the PSTP training grant. This course meets at 5:00pm on the second Tuesday of each month in 1301 MSRB III.

## MS Degree Research

| 605  | MS Degree Research          | 1.00-8.00| ADVISORY |
|      | IND + ARR ARR               |    | |

For Pharmacology Masters Students Only

## Sem Autonomic Pharm

| 614  | Sem Autonomic Pharm          | 2.00| ADVISORY |
| 24783| P SEM 001 ARR ARR           |    | |

## Business of Biology

| 620  | Business of Biology         | 2.25| ADVISORY |
| 23736| P RW REC 001 MW 830-10AM B3570 BUS |    | Canter |
| 620  | Business of Biology         | 2.25| ADVISORY |
| 23736| P RW REC 001 TH 530-8PM B3570 BUS |    | |
| 23736| P RW REC 001 TH 530-8PM B3570 BUS |    | |
| 23736| P RW REC 001 TH 530-8PM B3570 BUS |    | |

## Business of Biology

| 625  | Transl Sci Journal          | 1.00|         |
| 23837| P R SEM 001 F 10-11AM ARR   |    | Shewach |

Meets in room 5915 Buhl

## Drug Dev & Jrnl Club

| 626  | Drug Dev & Jrnl Club        | 3.00| ADVISORY |
| 23943| P LEC 001 TH 10-12PM ARR    |    | Shewach |
| 626  | Drug Dev & Jrnl Club        | 3.00| ADVISORY |
| 23943| P LEC 001 TH 10-12PM ARR    |    | Shewach |

626 is for students who want to combine 621 and 625 into one course

## Top Trans Res & JClub

<p>| 627  | Top Trans Res &amp; JClub       | 3.00|         |
| 23944| P LEC 001 T 10-12PM ARR     |    | Shewach |</p>
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*Special Topics: Only for Pharmacology Graduate Students. Meets in room 2901 THSL.
Diss-Precand: Only for first-year PIBS students interested in Pharmacology and Pharmacology MS degree students. Meets in room 2901 THSL.
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# Physiology Department

## Physiology (PHYSIOL)

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.

Class will be held in 3330 Med Sci I.

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## 404 Hum Physiol Lab

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## 405 Research Problems

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## 576 Signal Transduction

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## 605 MS Seminar Physiol

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Class location and time will be determined at a later date.

## 606 Current Topics

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Class meets in 5050 Brehm Tower

## 615 Tech Phys Instructn

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## 702 Physio MS Res Proj

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Class meets in 5050 Brehm Tower

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**PreMedical PostBaccalaureate Program**

*Post-Baccalaureate Premedical Program (MEDPREP)*

**Fnds Physicians - I**
- Course Code: 25551
- Days: W
- Time: 5-7PM
- Location: ARR
- Instructor: Wishart

**Fnds Physicians - III**
- Course Code: 25276
- Days: ARR
- Time: 5-7PM
- Location: ARR
- Instructor: Wishart

**Science of Medicine**
- Course Code: 28895
- Days: TTH
- Time: 11-1230PM
- Location: 2903 THSL
- Instructor: Morgenstern

**Science of Med (pb)**
- Course Code: 30072
- Days: ARR
- Time: ARR
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<td>Clinical Research</td>
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Psychiatry Department

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**Surgery Department**

**Surgery (SURGERY)**

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<td>2.00-8.00</td>
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U of M Schedule of Classes Page 358 of 456
Music, Theatre & Dance

--Performance Instruction in the School of Music (Individual Studio Assignment in Music Performance): All students requesting performance instruction must apply online at www.music.umich.edu, click on the "students" tab and then click on the "online individual studio assignment in music performance" form. Do not register until you have received an email verifying placement in a studio.

Department Of Dance

<table>
<thead>
<tr>
<th>Dance (DANCE)</th>
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<tbody>
<tr>
<td><strong>DANCE</strong></td>
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<tr>
<td>100 Intro to Dance</td>
</tr>
<tr>
<td>20523 P W LAB 001 MW 9-10AM DANCE STUDIO A Davis 1.00 ADVISORY</td>
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<tr>
<td>Jazz</td>
</tr>
<tr>
<td>21189 P W LAB 002 MW 9-10AM DANCE STUDIO B</td>
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<tr>
<td>Ballet</td>
</tr>
<tr>
<td>20524 P W LAB 003 MW 9-10AM DANCE STUDIO D Chacon Arias</td>
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<tr>
<td>Modern</td>
</tr>
<tr>
<td>Taught by dance students enrolled in DANCE 481.</td>
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<tr>
<td>20526 P W LAB 005 MW 10-11AM DANCE STUDIO B Bascom</td>
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<tr>
<td>Ballet</td>
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<tr>
<td>20527 P W LAB 006 MW 10-11AM DANCE STUDIO D Fogel</td>
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<tr>
<td>Modern</td>
</tr>
<tr>
<td>Taught by dance students enrolled in DANCE 571.</td>
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<tr>
<td>20528 P W LAB 007 MW 6-7PM DANCE STUDIO D Reehorst</td>
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<tr>
<td>Jazz</td>
</tr>
<tr>
<td>20529 P W LAB 008 MW 4-6PM DANCE STUDIO B Torijano</td>
</tr>
<tr>
<td>Modern Dance with Latino Influ</td>
</tr>
<tr>
<td>Bienvenidos! (Welcome)! End your Mondays and Wednesdays on a high note, at 4:10pm, dancing to the sounds of Latin American music such as Mambo, Merengue, Bolero, and Salsa; mixed with contemporary dance styles. Learn about the origins of these rich musical styles, broaden your knowledge and find new ways to identify with Central and South American music, poetry, literature and the visual arts.</td>
</tr>
<tr>
<td>20530 P W LAB 009 MW 9-10AM DANCE STUDIO A Foust 1.00 ADVISORY</td>
</tr>
<tr>
<td>Intermediate Hip Hop</td>
</tr>
<tr>
<td>This is an intermediate level course that builds on the skills in urban/commercial-style Hip Hop moves and rapid level changes for floor work. Choreography is provided and students will be able to develop according to individual style, ability, and personal interpretation. The history of this genre is examined through a commercial dance lens and elements of Hip Hop dance, as well as the role of dance in Hip Hop culture. There is also an opportunity for Freestyle, Old Style, Poppin', Lockin', and popular commercial dance styles such as Street Jazz and Jazz Funk. Students registered for this class should have taken some form of prior Hip Hop training/classes.</td>
</tr>
<tr>
<td>20531 P W LAB 010 TTH 9-10AM ARR Peters</td>
</tr>
<tr>
<td>Ballet</td>
</tr>
<tr>
<td>This class takes place in Studio B in the Dance building.</td>
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<tr>
<td>21456 P W LAB 011 TTH 4-5PM DANCE STUDIO A Beck 1.00 ADVISORY</td>
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<tr>
<td>Modern</td>
</tr>
<tr>
<td>Taught by dance students enrolled in DANCE 481.</td>
</tr>
<tr>
<td>21457 P W LAB 012 TTH 4-5PM DANCE STUDIO B Hirina</td>
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<tr>
<td>Modern</td>
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<td>25154 P W LAB 013 TTH 5-6PM DANCE STUDIO A Reehorst</td>
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<tr>
<td>Yoga</td>
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<tr>
<td>32650 P W LAB 014 F 12-2PM DANCE STUDIO B Bascom</td>
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<tr>
<td>Improvisation</td>
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<tr>
<td>32651 P W LAB 015 F 2-4PM DANCE STUDIO B Foust</td>
</tr>
<tr>
<td>Modern Funk</td>
</tr>
<tr>
<td>This course will emphasize principles of alignment, rhythmic and spatial awareness, dynamics, flexibility, and strength, investigating them as foundations for freedom of expression. The course will also include elements of street/commercial dance styles such as Street Jazz and Jazz Funk through a Modern dance lens and structure. There will be very brief reading and writing assignments, as well as performance and video viewing and analysis, which will inform the work in the studio. The course will culminate in the sharing of technical accomplishments and creative work.</td>
</tr>
<tr>
<td>101 Modern Dance I</td>
</tr>
<tr>
<td>20561 PD W LAB 001 TTH 12-2PM DANCE STUDIO D Hopper 1.00 ADVISORY</td>
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<td>111 Ballet I</td>
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<tr>
<td>26854 PD W LAB 002 T 10-12PM DANCE STUDIO B Jelinkova 1.00 ADVISORY</td>
</tr>
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<td>111 Ballet I</td>
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<td>20540 PD W LAB 001 M 4-6PM DANCE STUDIO A Wilson 1.00 ADVISORY</td>
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<td>Class #</td>
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</table>

This is an intermediate level course that builds on the skills in urban/commercial-style Hip Hop moves and rapid level changes for floor work. Choreography is provided and students will be able to develop according to individual style, ability, and personal interpretation. The history of this genre is examined through a commercial dance lens and elements of Hip Hop dance, as well as the role of dance in Hip Hop culture. There is also an opportunity for Freestyle, Old Style, Poppin', Lockin', and popular commercial dance styles such as Street Jazz and Jazz Funk. Students registered for this class should have taken some form of prior Hip Hop training/classes.

Intermediate Hip Hop

This class meets in Studio A. It is combined with a non-major section. 20 spots are available for majors and 15 spots are available for non-majors.

### 131 Intermediate Hip Hop

- **Course Title:** Dance Comp 1
- **CR:** 2.00
- **LAB FEE:** ADVISORY

<table>
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This class meets in Studio A. It is combined with a non-major section. 20 spots are available for majors and 15 spots are available for non-majors.

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## School of Music, Theatre and Dance

### Arts Administration (ARTSADMN)

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**Arts Leadership Forum**

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Wednesday class will be held in Studio 3054. T/Th 12:30-2:30 will meet with Orpheus Singers in Stamps Auditorium.
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Learn to play the dynamic, subtle, transcendent music of the Javanese Gamelan! These classes are for people who want to experience a musical tradition totally different from western folk, rock or classical music. The gamelan is an ensemble of gongs, metallophones, drums, xylophone, a few stringed instruments, and singers. No previous knowledge of Indonesia or of music is expected. These courses are open to all students, undergraduate and graduate in all departments of the university. For information contact Susan Walton swalton@walton.
Each ensemble will be assigned one lab time after ensembles are formed. Jazz majors only.

### Small Brass Ens
- **Course #:** 463
- **Title:** Small Brass Ens
- **Time:** 1.00

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### Small Brass Ens
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- **Title:** Small Brass Ens
- **Time:** 1.00

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### Small Brass Ens
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- **Time:** 1.00

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- **Title:** Wind Chamber Music
- **Time:** 1.00

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### Wind Chamber Music
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- **Title:** Wind Chamber Music
- **Time:** 1.00

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- **Title:** Creative Arts Orch

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### Mixed Chamber Music
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- **Title:** Piano Chamber Mus

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- **Course #:** 526
- **Title:** Orch Repertoire-Harp

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- **Title:** University Orchestras

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- **Title:** University Band

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Symphony Band
13203 P R LAB 002 MWF 1230-230PM 1380 SM Snyder

Concert Band
549 University Choir
13204 P R LAB 001 MWF 1-230PM 1320 MOORE 2.00 ADVISORY

550 Univ Chamber Choir
13205 P R LAB 001 MWF 1-230PM 1360 MOORE 1.00-2.00 ADVISORY

553 Mens Glee Club
23492 P LAB 001 TH 7-930PM AUD 4 MLB 1.00

554 Univ Choral Union
17171 P LAB 001 M 6-1030PM AUD 4 MLB Hanoian

555 Womens Glee Club
23493 P LAB 001 SU 630-10PM LEC RM 1 MLB 1.00 ADVISORY

556 Womens Glee Club
13206 P LAB 001 SU 630-10PM AUD 3 MLB 2.00 ADVISORY

566 Piano Chamber Mus
P LEC 001 TH 7-830PM ARR 2.00

567 Piano Chamber Mus
P LEC 001 ARR ARR 1.00-2.00 ADVISORY

580 Mixed Chamber Music
24387 P LEC 001 TH 7-830PM ARR 1.00-2.00 ADVISORY

581 Piano Acc&Duo Rep
13208 P LEC 001 F 430-630PM 1374 SM Collier

639 Piano Acc&Chamb Mus
13209 PIR LAB 001 ARR ARR 4.00 ADVISORY

640 Piano Acc&Chamb Mus
13210 PIR LAB 001 ARR ARR 4.00-6.00 ADVISORY

Euphonium-Baritone (EUPHBARI)

Flute (FLUTE)

Fortepiano (FPIANO)

Guitar (GUITAR)
111 Performance
29024 P W REC 001 TTH 230-330PM 2038 MOORE Baugh

Guitar 111 is for beginners - those who have never played guitar or who have very little experience. If you do not own a guitar one will be provided for you to use during the semester. This is not a class for intermediate or advanced guitarists. If you have playing experience, please register for GUITAR 112.

The purpose of GUITAR 111 is to help students develop their guitar skills, with a primary focus on using the guitar as an accompaniment instrument. Right Hand skills will include finger picking, flat picking, and a variety of strumming patterns. Left Hand skills will include open chords, barre chords, melody chords, and basic scale patterns. Introduction to reading of standard music notation, guitar tablature, and chord symbols will be covered. Other topics that will be presented include improvisation, playing by ear, and using the capo for transposition.

112 Performance
32813 P W REC 001 TTH 230-330PM 2020 MOORE Sukumaran

Guitar 112 is for intermediate level guitarists - who have played guitar previously. You should have some experience playing open chords, strumming, and either finger picking or flat picking. Some experience reading chord symbols, tablature, and/or standard music notation is helpful. If you do not have any previous experience please register for GUITAR 111.

You must have your own acoustic steel string or nylon string acoustic guitar for GUITAR 112.

GUITAR 112 will continue developing the skills introduced in GUITAR 111. Right Hand skills covered will include finger picking, flat picking, and a variety of strumming patterns. Left Hand skills will include open chords, barre chords, melody chords, pentatonic, blues, major, and minor scale patterns. Reading of standard music notation, guitar tablature, and chord symbols will be included. Other topics that will be covered include improvisation, playing by ear, and using the capo for transposition.

Harp (HARP)
450 Performance Lab
12562 P LAB 161 TH 430-630PM 1370 SM Holland

550 Performance Lab
P LAB 161 T 230-430PM ARR 1.00

U of M Schedule of Classes  Page 370  of  456  FA 2018 2210 05-03-2018 00:05 20532660
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**Rhythmic Training**

Jazz majors only. Sophomore and above. This course seeks to improve the musician's rhythmic acuity through training in three main areas: Time (ability to keep a steady beat and flow), Phrasing (how things are placed in time), and Feel (rhythmic nuance, swing, groove, pocket). Most coursework will be completed with exercises in singing and clapping, using standard Jazz repertoire.

**Music Education (MUSED)**

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**Fieldwork Experience**
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Musicology (MUSICOL)

NOTE - GRADUATE STUDENTS MUST ELECT 500-LEVEL AND HIGHER COURSES.

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U of M Schedule of Classes  Page 372 of 456  FA 2018 2210 05-03-2018 00:05 20532660
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**Immersive Media**

This course offers a practice-based investigation of modern immersive media technologies, including virtual reality platforms, spatial audio systems, and game engines. Lectures cover methods and tools employed in the design of multimodal and augmented realities. During the lab activities, students work in groups to implement interactive systems using modern immersive media platforms, such as Unity 3D, Oculus Rift, HTC Vive, and Apple ARKit. Assigned projects involve the prototyping and realization of immersive media artworks and performances.

Combining critical and historical discourse with hands-on experience, the course helps students develop comprehensive skills in the use of immersive media as performing arts technologies.
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### Percussion (PERCUSS)

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The course is about the classical music traditions of North India, also known as Hindustani music. The first half of the course focuses on acquiring mastery over the basic musical materials of this idiom through singing, improvisation, and transcription exercises. The second half of the course builds on these skills to theorize about and analyze aspects of North Indian classical pitch (i.e. raga) and rhythmic (i.e. tala) structure, form, performance practice, and their connection to other musical idioms, including the classical music of South India, and the classical and popular musical traditions of the West.

"Intensity, continuity, pacing" capture, for me, some of the ways that music creates drama and action. Pacing is speed or slowness, staying in the current moment, rushing ahead, drawing things out. Intensity can be as simple as loudness or softness or as complex as how strongly some music draws us into it. How a piece or passage "hangs together" is its continuity: a passage can move smoothly or abruptly to a succeeding passage; it can seem to contrast to a greater or lesser degree. If the terms I've chosen seem abstract, as they do to me, it is perhaps because they allude to qualities of sound that happen as time passes - qualities that can't be pinned down.

The course will center on listening and performance oriented analysis. I hope students will bring a wide spectrum of specializations, interests and backgrounds to work with music that might range from the Renaissance through the twenty-first century.
### Tuba (TUBA)

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## Theatre And Drama

### Theatre & Drama (THTREMUS)

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#### 101 Intro to Acting I
- Enrollment requires registration on the waitlist and attendance of the first three classes.
- CR: 3.00
- ADVISORY
- Instructor: Kassabova
- Time: 3:30-5:30 PM
- Location: 1435 WDC

#### 102 Intro to Acting II
- Enrollment requires registration on the waitlist and attendance of the first three classes.
- CR: 3.00
- ADVISORY
- Instructor: Packard
- Time: 3-5 PM
- Location: 2415 WDC

#### 172 Movement I
- CR: 3.00
- ADVISORY
- Instructor: Tulip
- Time: 9:30-10:30 AM
- Location: 1435 WDC

#### 192 Voice I
- CR: 3.00
- ADVISORY
- Instructor: Eaton
- Time: 12:30-2 PM
- Location: 1415 WDC

#### 211 Movement II
- CR: 2.00
- ADVISORY
- Instructor: Kassabova
- Time: 12-1 PM
- Location: 1435 WDC

#### 222 Intro Global Ethnic
- CR: 3.00
- ADVISORY
- Instructor: Woods
- Time: 10-11:30 AM
- Location: 2155 NQ

#### 227 Intro Playwriting
- CR: 3.00
- ADVISORY
- Instructor: Casas
- Time: 3-6 PM
- Location: 2439 WDC

#### 240 Intro to Design
- CR: 3.00
- ADVISORY
- Instructor: Murphy
- Time: 11-1 PM
- Location: 2239 WDC

#### 241 Directing I
- CR: 3.00
- ADVISORY
- Instructor: Cantor
- Time: 12:30-2:30 PM
- Location: B222 WDC

#### 245 Intro Stage Management
- CR: 2.00
- ADVISORY
- Instructor: Uffner-Elliott
- Time: 11-12 PM
- Location: 2443 WDC

#### 250 Intro Tech Th Prac
- CR: 3.00
- ADVISORY
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- Time: 9-10:30 AM
- Location: 2439 WDC

#### 251 Practicum I
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- Time: 9-10:30 AM
- Location: 2439 WDC

## Additional Classes

### 256 Lighting Design I
- CR: 3.00
- ADVISORY
- Instructor: Murphy
- Time: 9:30-11 AM
- Location: 2413 WDC

### 260 Scene Design I
- CR: 3.00
- ADVISORY
- Instructor: Mountain
- Time: 230-4 PM
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### 261 Practicum III
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**263 Design Rendering**

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Rendering meets in Design Studio: Room 2419 WDC.

**272 Movement III**

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Sophomore BFA Actors

**281 Acting III: Greeks**

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Meets with 399/002

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U of M Schedule of Classes Page 383 of 456 FA 2018 2210 05-03-2018 00:05 20532660
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Artistic practice in prisons has occurred since the inception of prisons themselves, though popular thought tends not to connect the idea of the arts with that of criminal justice systems. This course surveys the history of performance in prisons through the examination of plays written by and about prisoners as well as narratives, which chronicle the process of creating theatre in prisons. More importantly, the course also requires all enrolled students to enter an adult prison once a week throughout the semester to lead a theatre workshop with prisoners. Students will be placed in pairs to facilitate workshops, and each workshop will hold a performance at the end of the semester. Students and prisoners together create social change through their performances, both by bringing two disparate communities (i.e. undergrads and prisoners) into meaningful interaction and also by using theatre to explore significant social issues.

In this four credit drama course students will explore major American plays of the 20th century through the process of text analysis through performance. We will work on plays by major writers such as Arthur Miller, Tennessee Williams, Lorraine Hansberry, Sam Shepard and Tony Kushner. For each play we will discuss dramaturgical background, script and character analysis and put scenes on their feet for constructive critique. Written assignments will center on a journal, which will include a series of actor’s explorations of motivations and actions. Students will also be responsible for writing critiques of two productions. The course culminates in a public performance of a cutting of a major play, most likely Tony Kushner’s “Angels in America.”

In this four-credit drama course students will explore major American plays of the 20th century through the process of text analysis through performance. We will work on plays by major writers such as Arthur Miller, Tennessee Williams, Lorraine Hansberry, Sam Shepard and Tony Kushner. For each play we will discuss dramaturgical background, script and character analysis and put scenes on their feet for constructive critique. Written assignments will center on a journal, which will include a series of actor’s explorations of motivations and actions. Students will also be responsible for writing critiques of two productions. The course culminates in a public performance of a cutting of a major play, most likely Tony Kushner’s “Angels in America.”

The FLINT project
This course will explore Documentary Theatre as a genre and its connection to Applied Theatre, exploring the creation of art- with and about different communities. Students will be required read documentary plays and scholarship tied into the pedagogy related to the process. Furthermore, students will be required to field work and travel to Flint, MI as part of the course to assist in the creative process of the FLINT,mi play that will be created by the instructor and produced by the Department of Theatre during the 2018/19 academic year.
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Meets in room 2439 Walgreen Drama Center
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## Nursing School Of Nursing

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HS 510 will meet on September 6, October 4, November 1, and December 6 in NIB 1184.

HS 520 will meet on September 6, October 4, November 1, and December 6 in NIB 1219.

HS 550 lecture will meet on September 10, October 8, November 5, and December 3 in SNB 1000.

HS 550 lab will meet on September 10, October 8, November 5, and December 3 in SNB 1000.

This course is also open to graduate level students outside of the School of Nursing.

HS 612 will meet on September 7, October 5, November 2, and December 7 in NIB 1184.

HS 650 lab will meet on September 10, October 9, November 5, and December 3 in SNB 1000.

HS 710 will meet on September 7, October 5, November 2, and December 7 in NIB 1180.

HS 802 will meet on September 7, November 2, and December 7 in SNB 1240. The course will also meet on October 4 in NIB 1230.

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OPEN TO C E W STUDENTS.

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N950 will meet on September 7, October 5, November 2, and December 7 in NIB 1191. Scholarly Project 1.00-6.00 ADVISORY

Capstone Res & Sem I D IND + ARR ARR 6.00
29218 A LEC 001 TH 9-11AM 3151 400NIB Pardee
29219 P CLN 002 ARR ARR Pardee
31091 P CLN 003 ARR ARR Struble, Blush
31092 P CLN 004 ARR ARR

Diss-Precand IND + ARR ARR 1.00-8.00 ADVISORY

Diss-Cand R IND + ARR ARR 8.00 ENFORCED

Professional Nursing Education (PNE)

Health Main Cin I 3.00 200.00
24170 P R CLN 001 ARR ARR
PNE 200 is a placeholder PNE.
24171 A LAB 002 ARR ARR

Health Main Cin I 3.00 200.00
24172 P CLN 001 ARR ARR Birdsell
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24173 A LAB 002 ARR ARR Birdsell

Health Main Cin I 3.00 200.00
24174 P CLN 001 ARR ARR
Please be aware that there is mandatory online MiChart training for this course. Clinical will start during week 6.
24175 A LAB 002 ARR ARR Birdsell
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24176 P CLN 001 ARR ARR Shakoor
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24177 A LAB 002 ARR ARR Shakoor

Health Main Cin I 3.00 200.00
24178 P CLN 001 ARR ARR Buslawski
Please be aware that there is mandatory online MiChart training for this course. Clinical will start during week 6.
24179 A LAB 002 ARR ARR Buslawski
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24180 P CLN 001 ARR ARR Leech
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24181 A LAB 002 ARR ARR Leech

Health Main Cin I 3.00 200.00
24182 P CLN 001 ARR ARR Birdsell
Please be aware that there is mandatory online MiChart training for this course. Clinical will start during week 6.
24183 A LAB 002 ARR ARR Birdsell
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24184 P CLN 001 ARR ARR
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24185 A LAB 002 ARR ARR

Health Main Cin I 3.00 200.00
24186 P CLN 001 ARR ARR
Please be aware that there is mandatory online MiChart training for this course. Clinical will start during week 6.
24187 A LAB 002 ARR ARR
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24188 P CLN 001 ARR ARR
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
24189 A LAB 002 ARR ARR

Health Main Cin I 3.00 200.00
24190 P CLN 001 ARR ARR Accurso
Please be aware that there is mandatory online MiChart training for this course. Clinical will start during week 6.
24191 A LAB 002 ARR ARR Accurso
Lab will meet during weeks 2 through 5. Please plan to be available for the duration of your clinical time on the dates that your lab meets.
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This is a precepted clinical course. Students will follow the preceptor's work schedule.

PNE 450 is a placeholder PNE.
# Officer Education Programs

## Air Force Officer Education Program (AERO)

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| 201  | US Aviat Hist-Dev I        |    |        |         |
| 13714| LEC 001                    | W  | 10-11AM| 2228 SEB| Aalderink|
| 13712| LEC 002                    | TH | 11-12PM| 2245 NQ | Aalderink|
| 30339| LEC 003                    | M  | 12-1PM | 1175 NQ | Aalderink|
| 13713| LAB 004                    | TH | 6-8AM  | ARR     |         |
| 30338| LEC 005                    | T  | 830-930AM | 1096 EH | Aalderink|

| 310  | Concepts Leadership        |    |        |         |
| 13715| SEM 001                    | W  | 9-12PM | B122 MLB| Menino   |
| 13716| SEM 002                    | TH | 12-3PM | 2228 SEB| Menino   |
| 17785| SEM 003                    | ARR | ARR   | ARR     |         |
| 13717| LAB 004                    | TH | 6-8AM  | 1300 CHEM| Song    |
| 24253| SEM 011                    | ARR | ARR   |         |         |

| 410  | American Society I         |    |        |         |
| 13718| RW SEM 001                 | M  | 11-2PM | 3816 SSWB| Graham  |
| 13719| RW SEM 002                 | TH | 9-12PM | 2320 SEB| Graham  |
| 13720| R LAB 004                  | TH | 6-8AM  | 1300 CHEM| Song    |
## Army Officer Education Program

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### Navy Officer Education Program

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Non-ROTC students do not attend the labs.
**Pharmacy**

**College Of Pharmacy**

### Medicinal Chemistry (MEDCHEM)

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Course is intended for pharmacy students only.

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Contact ChemicalBiology@umich.edu for registration inquiries. Section 002 is intended for MS Cancer Chemical Biology students; section 001 is intended for PhD students.

Please note that section 002 will meet at the same time/days/location of section 001 - MWF 8-9am in 1250 USB.

### Biophysic Prin Med Chm

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Please Note: Class meets in room B022 Pharmacy Building

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Course is intended for Pharmacy students only.

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Please note: Class meets in room B022 Pharmacy Building.

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*Please note: Permission to enroll in this course will be granted at the College Orientation. This course meets the first Wednesday of the month during both Fall and Winter terms. Students must enroll in the course each term.

Please consult CANVAS site for complete course schedule and assignments. First class meeting, September 6, 2017.

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The course description can be found at: https://pharmacy.umich.edu/service. Note that permission is required to register for this course. Kineslgy 581, MoveSci 481, Pharmacy 503, PubHlth 503, and Social Work 573 are cross listed courses. If you would like to register for Kineslgy 581, MoveSci 481, SW 573 or PubHlth 503 please send a request, including your student ID#, to ServiceForHealth@umich.edu.

### Pharm Prac Skills I

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Pharmaceutical Sciences (PHARMSCI)

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Enforced Prerequisite: Completion of General Chemistry.

Recommended: Completion of/concurrent enrollment in Calculus I.

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Prerequisites: General Chemistry and Calculus I.

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This course is open to students entering their final year in the BSPS program. Students will be required to attend.
Fall term seminars offered by the Department of Clinical Pharmacy, Medicinal Chemistry, or Pharmaceutical Sciences (other program related seminars with permission). Please see Department websites for seminar schedules. This class will meet on Tuesday September 4, 2018 from 4 p.m. - 5 p.m. in room B022, College of Pharmacy. Additional information regarding the number of seminars students will be required to attend and the dates for the mandatory Tuesday class meetings will be provided at the first class meeting.

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#### Biostatistics Department

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**For questions about overrides, please contact Nicole Fenech at fenechn@umich.edu**

- **13493** A LEC 001 TTH 10-12PM 1020 SPH2 Zawistowski
- **16278** P R LAB 003 TH 4-5PM SPH2 G442A Zawistowski
- **16279** P R LAB 004 F 10-11AM 2615 SPH1A Zawistowski
- **20946** P R LAB 005 F 2-3PM SPH2 G442A Zawistowski
- **21035** P R LAB 006 TH 3-4PM SPH2 G442C Zawistowski
- **21527** P RW LAB 007 TH 12-1PM SPH2 G442A Zawistowski
- **21528** P RW LAB 006 F 8-9AM SPH2 G442C Zawistowski
- **27808** P R LAB 011 M 4-5PM SPH2 G442A Zawistowski
- **27809** P R LAB 012 M 5-6PM SPH2 G442C Zawistowski
- **523** EPID Stat Methods | 4.00 | ENFORCED |
| **524** Bio-Clin Researcher | 4.00 | ADVISORY |

**Section 333 of this course is reserved for students in the On Job On Campus Clinical Research Design and Statistical Analysis Program (OJOC CRDSA) program. At this time, students in the residential Masters (i.e., MPH, MHSA, MH, and MS) programs are not permitted to register for these sections.**

- **23277** PD LEC 333 ARR ARR Zhao
- **578** Practical Training | 1.00-4.00 |

- **600** Intro to Biostat | 1.00 | ADVISORY |
| **601** ProbDistrib Theory | 4.00 | ADVISORY |
| **605** Intro SAS Stat Prgrm | 1.00 | ADVISORY |
| **606** Intro Biodatacom | 1.00 | ENFORCED |
| **610** Readings in Biostat | 1.00-4.00 | ADVISORY |
| **615** Statistical Comput | 3.00 | ADVISORY |

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This course will typically meet in room 1655 SPH I. Please contact the course instructor(s) for the specific dates as the course will be offered in USB1250.

Must attend 2/3 of all seminars in order to receive credit.

Only Biostatistics students should be able to register directly. All non-Biostats students should e-mail the course instructor for an override.
### Environmental Health Sciences (EHS)

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Epidemiology Department

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Undergraduate students need permission of instructor.

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This course will meet in room 4645 SPH Tower.

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Health Management And Policy

Health Management And Policy (HMP)

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This is a course for the students in the HMP Executive Masters program only.

| 600  | Hlth Serv Syst I                | 3.00 | ADVISORY | Dotson         |
| 13528| P R LEC 001 TTH 1-230PM 3755 SPH1 |    |         |                |

Section 777 of this course is reserved for students in the Executive Masters program. At this time, students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register for these sections.

| 601  | Healthcare Quality              | 3.00 | ENFORCED | Liang          |
| 29511| P R LEC 777                    | ARR | ARR    |                |

Section 777 of this course is reserved for students in the Executive Masters program. At this time, students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register for these sections.

| 604  | Mgmt of Hlth Nonprof           | 2.00 | ADVISORY | McCullough     |
| 25682| P W LEC 001 W 1-3PM 1655 SPH1A |    |         |                |

This section is reserved for students in the Executive Masters program only.

| 605  | Hlth Care Fin Acct              | 1.00-2.00 |          |                |
| 17461| P R LEC 001 TTH 10-1130AM 1690 SPH1A |    |         |                |

This section is reserved for students in the Executive Masters program only.

| 607  | Intro Pub Hlth Pol             | 3.00 |          | Jarman         |
| 22218| P R LEC 001 TTH 10-1130AM 1690 SPH1A |    |         |                |

| 620  | Professional Develop           | 1.00 |          | Killlay        |
| 22313| P DIS 001 F 11-1230PM 1755 SPH1 |    |         |                |

| 622  | Qualitative Methods            | 3.00 |          | Jarman         |
| 25359| P R LEC 001 TH 3-6PM 4318 SPH2 |    |         |                |

| 625  | Comp H Pol & Mgmtnt            | 3.00 |          | Falkenbach     |
| 34380| P DIS 001 MW 3-430PM ARR       |    |         |                |

| 626  | Race, Eth, Cult, Policy        | 3.00 |          | Mehta          |
| 27100| P R LEC 001 W 1-4PM 1123 SPH2 |    |         |                |

| 627  | Pop Dynamics Pol               | 2.25 |          |                |
| 32622| P W LEC 001 MW 130-3PM ARR     |    |         |                |

| 630  | Business of Biology            | 2.25 |          |                |
| 23735| P RW REC 001 TH 830-10AM B3570 BUS |    |         |                |

| 630  | Business of Biology            | 2.25 |          |                |
| 23735| P RW REC 001 TH 530-8PM B3570 BUS |    |         |                |

HMP 630 is cross-listed with BE 618, PHRMACOL 620, BIOMEDE 523, & ENGR 523. This class meets on four Thursday evenings from 5:30 pm - 8 pm in addition to Monday/Wednesday mornings. The Thursday meeting dates for 2017 are 9/7, 9/28, and 10/12.

| 648  | Eval Methods in HI             | 3.00 |          | Friedman       |
| 26344| P W LEC 001 F 9-12PM 1255 NQ |    |         |                |

| 652  | Health Law                     | 3.00 |          | Napiewocki     |
| 17795| P RW LEC 001 TTH 1-230PM 2306 MH |    |         |                |

| 654  | Oper & Control Syst            | 3.00 |          | Mendez, Sun    |
| 13529| P RW LEC 001 MW 830-10AM 3755 SPH1 |    |         |                |

| 668  | Health Informatics             | 3.00 |          | McCabe, Ilitch|
| 21902| P RW LEC 001 MW 430-6PM 1655 SPH1A |    |         |                |

| 677  | Health Care Organiza           | 3.00 |          | Liang          |
| 23813| P LEC 001 TTH 430-6PM G020 SPH2 |    |         |                |

| 680  | Special Topics HMP             | 1.00-3.00 |          | Horton         |
| 25427| P RW DIS 001 ARR              | ARR | ARR    |                |

Transformational Leadership
Course will meet: Wednesday, September 19th and 26th from 3-5PM.
Friday, September 21st and 28th 12-2PM.

Lean Six Sigma Green Belt Hlth
29602| P R LEC 001 W 1-2PM ARR        |    |         | Greer          |

Calling BS in Age of Big Data
Calling Bullshit: A Totally Serious and Not Plagiarized Course on Data & Reasoning in the 21st Century (1 credit).
Nine lectures featuring HMP faculty Scott Greer, Rebecca Haffajee, Jeff McCullough and Edward Norton on causality, ethics, predatory publishing, big data, etc.

| 690  | Readings                       | 1.00-4.00 | ADVISORY |                |
| 19832| PD LEC 777                     | ARR | ARR    |                |

| 691  | Seminar Series                 | 1.00 |          | Liang, McCullough |
| 32279| P R SEM 001 W 3-530PM 4318 SPH2 |    |         | Eisenberg        |

| 693  | US-Mental Hlt Policy           | 3.00 | ADVISORY, ENFORCED |                |
| 32279| P R SEM 001 W 3-530PM 4318 SPH2 |    |         |                |

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For registration questions, contact Jillian McConville: jmcconv@umich.edu.

Students planning to apply to the public health major should not enroll in this course.

For registration questions, contact Jillian McConville: jmcconv@umich.edu.
Aspects of India's heritage, as only a small fraction of pre-colonial monuments in India receive federal protection. While India has obtained substantial economic growth in the last two decades, there has also been deterioration in several well-being versus the potential threats to the environment and heritage preservation. For example, although India tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic areas for successive governments. However, development often generates costs that force us to address difficult initiatives (PSI). In India -- as in many parts of the world -- economic growth and development have been key focus.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This course will challenge students to develop creative approaches to reducing the risk of brain injury in youth and high school football. Students will work in multi-disciplinary teams, under the guidance of the instructors, to conceive and propose a novel solutions that draw on insights from law, engineering, medicine, business, ethics, and other relevant fields. Each student team will address a specific sub-topic relative to the course theme. Sub-topics may include: What changes in the rules governing practices, participation, and play should be instituted? What kinds of protective and monitoring equipment should be used, and under what protocols? How should such equipment be financed and distributed?

Class time will focus on providing background information and discussion with topical experts. Students are expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

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**Class #**

**Code**

**CMP**

**SEC**

**DAYS**

**TIME**

**LOCATION**

**CR**

**INSTRUCTOR**

**PREREQ**

**LAB FEE**

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32205 PI LAB 002 W 315-415PM 1070 LSSH Friedman, Broglio 3.00 ADVISORY

32219 PI LAB 004 W 315-415PM 1025 LSSH Clark, Ackerman 3.00 ADVISORY

32226 PI LAB 005 T 315-415PM 1070 LSSH Khanna, Chanchani 3.00 ADVISORY

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and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India’s Constitution and polity and gauge the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, historic preservation, and intellectual property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India’s heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

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Public Policy
School Of Public Policy

Public Policy (PUBPOL)

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18217 P RW DIS 002 F 11-12PM 1220 WEILL
18218 P RW DIS 003 F 2-3PM 1230 WEILL
18219 P RW DIS 004 F 1-2PM 1220 WEILL
18220 P RW DIS 005 F 1-2PM 1230 WEILL

210 Health & Society 4.00
20578 A LEC 001 TTH 230-4PM 1020 SPH2 Franzblau, Youatt
20579 P W DIS 002 T 4-5PM 1123 SPH2 Cooper
20580 P W DIS 003 W 9-10AM 1123 SPH2 Laskaris
20581 P W DIS 004 W 10-11AM 2690 SPH1A Villatoro
20582 P W DIS 005 W 11-12PM 2690 SPH1A Raj
20583 P W DIS 006 W 1-2PM 2690 SPH1A Villatoro
20584 P W DIS 007 W 2-3PM 2690 SPH1A Hazzard
20585 P W DIS 008 W 12-1PM 2690 SPH1A Villatoro
20586 P W DIS 010 W 3-4PM 2690 SPH1A Hazzard
20587 P W DIS 011 TH 9-10AM 2690 SPH1A Carlson
20588 P W DIS 013 TH 11-12PM 2690 SPH1A Hazzard
20598 P W DIS 014 TH 12-1PM 2690 SPH1A Raj
21197 P W DIS 015 TH 4-5PM 2690 SPH1A Hazzard
21200 P W DIS 016 TH 11-12PM 2690 SPH1A Raj
21201 P W DIS 018 TH 1-2PM 2690 SPH1A Cooper
25822 P W DIS 020 T 4-5PM 2690 SPH1A Laskaris
22881 P W DIS 021 TH 1-2PM 1123 SPH2 Hazzard
22882 P W DIS 022 TH 4-5PM 2690 SPH1A Raj

290 Independent Study 1.00-3.00
I IND ARR ARR
3.00

312 Env Politics&Policy 4.00
23978 PI W LEC 001 MW 1130-1PM 1230 WEILL Rabe

320 Politics & Pub Pol 4.00
18592 A W LEC 001 TTH 830-10AM 1120 WEILL Ciorciari
This is a core course restricted to Ford School students only
18593 P RW DIS 002 F 9-10AM 1123 SPH2 Laskaris
This is a core course restricted to Ford School students only
18594 P RW DIS 003 F 10-11AM 1123 SPH2 Cooper
This is a core course restricted to Ford School students only
25471 P RW DIS 004 F 1-2PM 2690 SPH1A Hazzard
This is a core course restricted to Ford School students only

330 Microeconomics 4.00 ADVISORY
18608 AD LEC 001 MW 10-1130AM 1110 WEILL Stevenson
In Depth
This is a core course restricted to Ford School students only
26109 AD LEC 002 MW 230-4PM 1110 WEILL Stevenson
In Depth
This is a core course restricted to Ford School students only
18609 PDR DIS 003 F 11-12PM 1230 WEILL
In Depth
This is a core course restricted to Ford School students only.
This discussion section is for students assigned to 330.001 - In Depth
18610 PDR DIS 004 F 12-1PM 1230 WEILL
This is a core course restricted to Ford School students only
This discussion is for students assigned to 330.002

412 Environ in Pub Pol 3.00
30333 P W SEM 001 TTH 10-1130AM 1096 EH Bouma

422 Cong&State Legis 3.00
19506 P RW LEC 001 TTH 1130-1PM 1230 WEILL Schwarz

466 Hist&Future Detroit 1.00
22746 P RW REC 001 TTH 830-10AM 1230 WEILL Farley
The class will be held the following days: 9/25, 9/27, 9/29 Detroit Trip, 10/2, 10/4

475 Topics in Pub Pol 1.00-4.00
25865 P SEM 200 TTH 230-4PM 1120 WEILL
475 Topics in Pub Pol 1.00-4.00
P SEM 200 F 1130-1PM 1110 WEILL
475 Topics in Pub Pol 1.00-4.00
31775 P RW SEM 301 MW 10-1130AM 1230 WEILL Henry
Social Justice
31773 P RW SEM 302 TTH 230-4PM 1110 WEILL Duderstadt
UM: Past, Present, Future
20632 P RW SEM 303 MW 230-4PM 1230 WEILL Horner
Michigan Politics & Policy
25311 P RW SEM 304 TH 6-9PM 1230 WEILL Ruff
This course examines the interaction of politics and policymaking at the state level. It examines issues such as the role of lobbyists, the impact of campaign and election reforms, and the relationship between state governments and other levels of government.

32245 P SEM 305 TTH 230-4PM 1220 WEILL Silva
Equity at Work

32162 P R SEM 306 TTH 10-1130AM 1210 WEILL Hausman
Gov Reg Ind & Envir

33549 P RW SEM 307 TH 12-4PM ARR Chamberlin, Thornton, Goldenberg
Screen Arts & Cultures

31927 P RW SEM 501 F 9-12PM 1210 WEILL Benoit
Community Development Finance

Facilitating Dialogue
This is a short introductory course module in facilitating complex and difficult dialogic moments of engagement in the social, professional and institutional spheres of the public arena. Its purpose is to provide the possibility for actual engagement with tense social issues and phenomena bedeviling complex societies. It will briefly explore the historical and theoretical contexts, which give rise to sometimes painful and traumatic moments that filter in and color what may otherwise be perceived as simplistic conversations and interactions. It will introduce students?regardless of perceived color, gender, class, or ethnic identity categorization?to the necessity for transcending their subject locations. In order to facilitate, mediate, and engage in trans-formative moments of learning, dialogue, leadership and communal capacity building with due regard of difference and the respect of mutualiy.

476 Topics in PubPol 2.00
29142 P RW SEM 001 F 1-230PM 1110 WEILL Lin
Applied Learning Seminar
This is a required course closed to current Ford School BA students.
Class will also meet on Saturday, 9/1 from 10am - 4pm and on Saturday, 10/27 from noon - 5pm.

479 Quant Decision Analy 4.00
28641 S LEC 001 TTH 10-1130AM 1120 WEILL Lantz
Evaluating Public Policies
This course is restricted for Ford School Seniors enrolled in the BA Program and that have completed STATS 250 (see note below).
This 3-credit course will provide an introduction to the fundamentals of evaluation research design and methods as applied to public policies and programs. The course will cover the role of evaluation in the public policy process, and both process and summative evaluation research, including research designs for establishing causal inference between exposure to public policies/programs and outcomes. Students will gain skills in understanding and crafting research designs common in public policy evaluation, including randomized controlled trials, quasi-experimental designs and time series designs. Students will also gain skills in understanding/critiquing published public policy evaluation literature, measurement/data collection methods, and basic statistical methods for analyzing evaluation data. Class format will include lecture, discussion of case studies, and small group applied exercises.

This course will help build your research/analysis skills

Note: Stats 250 is a prerequisite so students should complete the course prior to their senior year. In exceptional circumstances, students may take Stats 250 concurrent with PubPol 479, if necessary.

490 Independent Study 1.00-3.00
21511 PDR SEM 001 F 12-1PM 1120 WEILL Bednar
Policy Seminar

495 Policy Seminar 4.00
18859 PDR SEM 001 MW 1-230PM 1220 WEILL Maccini
Behavioral Economics
PubPol 495 is open to students in the Public Policy BA program, by permission only.

19393 PDR SEM 002 MW 830-10AM 1230 WEILL Collins
Intr Dev Metrics and Analysis
PubPol 495 is open to students in the Public Policy BA program, by permission only.

19394 PDR SEM 003 TTH 1-230PM 1230 WEILL Hausman
Energy
PubPol 495 is open to students in the Public Policy BA program, by permission only.

25150 PDR SEM 004 TTH 1-230PM 1220 WEILL Dominguez
Global Financial Markets
PubPol 495 is open to students in the Public Policy BA program, by permission only.

28561 PDR SEM 005 TTH 1-230PM 1210 WEILL Leiser
Tax Policy
PubPol 495 is open to students in the Public Policy BA program, by permission only.

32485 P SEM 006 MW 830-10AM 1210 WEILL Kerner
Politics of Debt

510 Politics of Pub Pol 3.00
23577 PDR REC 001 TTH 1-230PM 1110 WEILL Kabo
This is a core course restricted to Ford School students only. Registration is by permission

This section of 510 aims to help you better understand policy analysis and the political environment within a context of American domestic politics at the national level.

Policy analysis is a discipline that brings systematic thinking and social scientific evidence to bear on
substantive problems. The premise of this course is that policymakers seldom value that analysis as much as we do. Many are skeptical about what social science can contribute to solving public problems, often rightly so. Others see policy analysis as material to be deployed selectively and strategically in political battles fought on other terms. In today’s highly partisan, often hyperbolic politics, bringing reason and evidence to bear on public problems is more challenging than ever.

By the end of the course, you will understand the political environment in which policy specialists operate: the participants who shape policy within particular domains; the ways in which they perceive problems and solutions; the information, interests, and ideologies likely to govern their actions; the strategies they use; and the institutional arrangements and processes that shape their behavior and constrain their decisions. A final but important purpose of the course is to help you work on your writing and, to a lesser extent, your oral communication skills.

This is a core course restricted to Ford School students only. Registration is by permission.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The class will use the experience of the so-called Islamic State in Iraq and Syria (ISIS) to develop a plan for countering the ways in which extremist groups use social media to instigate acts of violence.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

Class time will focus on providing background information and discussion with topical experts. Students are expected to spend additional time outside of class contacting experts and researching scientific and lay materials. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.
experts. Students working in multidisciplinary sub-teams will dive deeply into particular aspects of the problem with the course culminating in the creation of an integrated class deliverable in the form of a business or operational plan proposing concrete solutions to the problem.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

710 Interdisc Prob Solv 3.00 ADVISORY 710 Interdisc Prob Solv 3.00 ADVISORY

This is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). We are facing what might be described as a failure or crisis of public trust in sources of truth about matters of fact. Public actors lie and accuse each other of lying. Media outlets present competing narratives. People do not know whom to trust or believe. Misinformation and conspiracy theories spread through social media. Our aim in this course will be to identify concrete potential interventions, solutions, or avenues for future exploration that might help people identify and trust sources of truth and/or that might mitigate the spread of misinformation. We will draw in insights from a range of interconnected fields, including (but not limited to): psychology, communications, journalism, social media, information, computer science, law, and history.

At the end of the term, students will present a proposal to an expert panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

710 Interdisc Prob Solv 3.00 ADVISORY 710 Interdisc Prob Solv 3.00 ADVISORY

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In India -- as in many parts of the world -- economic growth and development have been key focus areas for successive governments. However, development often generates costs that force us to address difficult tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic well-being versus the potential threats to the environment and heritage preservation. For example, although India has obtained substantial economic growth in the last two decades, there has also been deterioration in several aspects of India's heritage, as only a small fraction of pre-colonial monuments in India receive federal protection and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India's Constitution and polity and gauge the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, historic preservation, and intellectual property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of cultural sites, as well as other aspects of India's heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.
This course considers the range of state and local policies that impact renewable energy development, understanding how these policies interact, and understanding the politics at play behind their adoption.

Climate change often feels like a problem that our brains have been hardwired to ignore. Climate change is abstract and complex, making it hard for non-scientists (including policy-makers) to understand. For most Americans, it is a problem that will harm people who are far away in time and geography. And the significant political polarization surrounding climate change has turned it into a form of identity politics. Yet like so many environmental problems—from habitat destruction to overconsumption of natural resources—climate change is the result of human behavior. If we want to solve or mitigate these problems, we must first understand what is driving these beliefs and behaviors.

Most policy to address environmental issues such as climate change has focused on legal or economic tools such as prohibiting certain forms of pollution or giving subsidies for renewable energy. In this discussion-based policy seminar, we will examine an alternative framework for motivating environmentally-friendly behavior: psychological and social incentives. We will explore factors affecting climate change beliefs and related behaviors, including reactions to and support for policies. The focus will be primarily on the US, and we will discuss policy programs and private interventions that have incorporated social psychological research to promote climate change mitigation as well as potential new applications of this research. Although this class will mainly cover climate change and other environmental issues, the psychological tools we will discuss are used in other domains as well, so will be useful to students interested in a range of policy topics.

Class will meet: 9/7, 9/21, 10/5, 10/19, 11/2, 11/16, and 11/30.

This course is for third-year Ford School PhD students only. Registration by permission. PhD 3rd year course.

This course considers the range of state and local policies that impact renewable energy development, understanding how these policies interact, and understanding the politics at play behind their adoption.
**Rackham Graduate School**

**Chemical Biology (CHEMBIO)**

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<tr>
<th>CAT#</th>
<th>Course Title</th>
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<tr>
<td>501</td>
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<td>Contact <a href="mailto:ChemicalBiology@umich.edu">ChemicalBiology@umich.edu</a> for registration inquiries after July 1st. This course is for PhD students only.</td>
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This course is intended for Chemical Biology MS students only.

CHEMBIO 511 lectures will meet together with CHEMBIO 501 in 1250USB on M, W, F 8-9AM.

Registering for this lecture section will auto-enroll a discussion section (CHEMBIO 511 002) on F 11-12pm in 1567CCL.

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<td>601</td>
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<td>580</td>
<td>Disability Studies</td>
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**Museum Studies (MSP)**

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**Rackham Graduate School (RACKHAM)**

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**Ross School of Business**

FRESHMEN MAY NOT ELECT ANY BUSINESS COURSES. 500 LEVEL COURSES OR ABOVE REQUIRE GRADUATE STANDING.

### School of Business Administration

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<tr>
<th>Accounting (ACC)</th>
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| 24484 P RW REC 010 MW 230-4PM B1580 BUS | Krollick | |
| This section of ACC 300 is reserved exclusively for non-Business students of sophomore standing (25+ CTP) and above. |

| 24485 P RW REC 011 MW 4-530PM B1580 BUS | Krollick | |
| This section of ACC 300 is reserved exclusively for non-Business students of sophomore standing (25+ CTP) and above. |

| 24487 P RW REC 310 MW 230-4PM B1580 BUS | Krollick | |
| This section of ACC 300 is reserved exclusively for Minor in Business students. |

| 24488 P RW REC 311 MW 4-530PM B1580 BUS | Krollick | |
| This section of ACC 300 is reserved exclusively for Minor in Business students. |

| 24489 P RW REC 311 MW 1-230PM R0220 BUS | Krollick | |
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| 24956 P RW REC 311 MW 1-230PM R2240 BUS | Jung | |
| Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with. |

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<th>315 Cost Accounting</th>
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<tr>
<td>10093 P RW REC 001 MW 1-230PM B3560 BUS</td>
<td>Klemstine</td>
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</tr>
<tr>
<td>Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.</td>
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<table>
<thead>
<tr>
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<tr>
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<tr>
<td>335 Maize and Blue Fund</td>
<td>1.50</td>
<td>ADVISORY</td>
</tr>
<tr>
<td>20882 PI SEM 001 T 630-930PM R0400 BUS</td>
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ACC 335 is cross-listed with FIN 335 and meets with ACC/FIN 725.

<table>
<thead>
<tr>
<th>399 Indep Study Project</th>
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<table>
<thead>
<tr>
<th>471 Accounting Principle</th>
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<tr>
<td>10095 P RW REC 001 MW 830-10AM R2240 BUS</td>
<td>Williams</td>
<td></td>
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</table>

This section of ACC 471 is reserved for non-Business students with junior (55+ CTP), senior (85+ CTP), or graduate standing.

| 10096 P RW REC 002 MW 10-1130AM R2240 BUS | Williams | |
| This section of ACC 471 is reserved for non-Business students with junior (55+ CTP), senior (85+ CTP), or graduate standing. |

| 19892 P RW REC 003 W 7-10PM R0220 BUS | Thompson | |
| This section of ACC 471 is reserved for non-Business students with junior (55+ CTP), senior (85+ CTP), or graduate standing. |

| 24490 P RW REC 311 MW 830-10AM R2240 BUS | Williams | |
| This section of ACC 471 is reserved exclusively for Minor in Business students. |

| 24491 P RW REC 312 MW 10-1130AM R2240 BUS | Williams | |
| This section of ACC 471 is reserved exclusively for Minor in Business students. |

| 24492 P RW REC 313 W 7-10PM R0220 BUS | Thompson | |
| This section of ACC 471 is reserved exclusively for Minor in Business students. |

<table>
<thead>
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</table>

| 502 Prin Fin Acc | 2.25 | ENFORCED |

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ACC 555 is reserved exclusively for MAcc students.

560 Tax & Managerial Dec
ACC 560.001 meets with ACC 560.451.
ACC 560.451 meets with ACC 560.001.

561 Federal Taxation I

564 Corp Fin Reporting

601 Acc Info Sys Design

618 Fin Comm & Invst Relat

630 Auditing & Assurance

695 MAcc Grad Res Sem

711 Fin Stmt Analysis I

725 Maize and Blue Fund

Business Administration (BA)
<table>
<thead>
<tr>
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**Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.**

<table>
<thead>
<tr>
<th>Class #</th>
<th>CODE</th>
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<th>TIME</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
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</thead>
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<tr>
<td>24504</td>
<td>P</td>
<td>R</td>
<td>DIS 002</td>
<td>M</td>
<td>1-230PM</td>
<td>R0420 BUS</td>
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<tr>
<td>24506</td>
<td>P</td>
<td>R</td>
<td>DIS 004</td>
<td>M</td>
<td>230-4PM</td>
<td>R0420 BUS</td>
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<td>R</td>
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<td>R</td>
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<td>7-9PM</td>
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<td>R</td>
<td>DIS 010</td>
<td>T</td>
<td>1130-1PM</td>
<td>R2310 BUS</td>
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**Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.**
Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 010 F 1-230PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 011 T 7-9PM ARR
P R DIS 011 F 1-230PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 012 T 7-9PM ARR
P R DIS 012 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 013 T 4-530PM R0420 BUS

200 Bus&Leaders:Pos Diff
P R DIS 013 F 1-230PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 014 T 7-9PM ARR
P R DIS 014 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 015 W 1-230PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 015 F 1-230PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 016 T 7-9PM ARR
P R DIS 016 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 017 W 230-4PM B2560 BUS

200 Bus&Leaders:Pos Diff
P R DIS 017 T 7-9PM ARR
P R DIS 017 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 018 T 7-9PM ARR
P R DIS 018 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 019 W 4-530PM ARR

200 Bus&Leaders:Pos Diff
P R DIS 019 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 020 T 7-9PM ARR
P R DIS 020 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

200 Bus&Leaders:Pos Diff
P R DIS 021 T 7-9PM ARR
P R DIS 021 F 1-230PM ARR

Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

U of M Schedule of Classes Page 424 of 456 FA 2018 2210 05-03-2018 00:05 20532660
Classrooms. Friday afternoon sessions should be set aside for team based work and Career Development activities.

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<th>LAB Fee</th>
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<tr>
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Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

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<tr>
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<th>LAB Fee</th>
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</thead>
<tbody>
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Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

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<thead>
<tr>
<th>CAT#</th>
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<th>LAB Fee</th>
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Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

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<thead>
<tr>
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<td>26170</td>
<td>P R DIS 025 TH 230-4PM</td>
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Required Tuesday night sessions will happen at multiple locations throughout the term (either Rackham Aud or Ross Classrooms). Friday afternoon sessions should be set aside for team based work and Career Development activities.

<table>
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<tr>
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ENTR 390.003 and BA 201.001 meet together. BBA students are not permitted to enroll in this class.

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<thead>
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</table>

Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

<table>
<thead>
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<th>CAT#</th>
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Senior Seminar 3.00 ADVISORY

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<td>B1570 BUS</td>
<td>20532660</td>
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</table>

BA 380 is reserved for BBA Seniors. If you are eligible and interested in enrolling, please contact Professor Rick Bagozzi (bagozzi@umich.edu) for details regarding this course.

<table>
<thead>
<tr>
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<tr>
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### Course Title, CR, PREREQ, LAB FEE

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<th>LAB FEE</th>
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<td>28014</td>
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Section 321 meets with Section 001 and is reserved exclusively for Minor in Business and Master of Management students. 2018: Monday meetings take place in R0420.

<table>
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<tbody>
<tr>
<td>29699</td>
<td>PI LAB 001 TTH 830-10AM B0560 BUS Barger</td>
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<tr>
<td>456</td>
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BE 518 is cross-listed with HMP 530, PHRMANOL 620, BIOMEDE 523, & ENGR 523. This class meets on four Thursday evenings from 5 pm - 7:30 pm in addition to Monday/Wednesday mornings. The Thursday meeting dates for 2018 are 9/6, 9/20, 9/27 and 10/11.

<table>
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<tr>
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<tbody>
<tr>
<td>31200</td>
<td>P REC 001 T 1-2PM R1210 BUS Shark</td>
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<tr>
<td>525</td>
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<td>P REC 001 W 1-2PM R1220 BUS</td>
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It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

<table>
<thead>
<tr>
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<tr>
<td>17853</td>
<td>P RW REC 001 TTH 1240-210PM R2240 BUS London</td>
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</table>

It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

### U of M Schedule of Classes

Page 426 of 456
BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

<table>
<thead>
<tr>
<th>CR</th>
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<td>14627</td>
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<td>R2320 BUS</td>
<td>Zimmerman</td>
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<tr>
<td>350</td>
<td></td>
<td>14628</td>
<td></td>
<td></td>
<td>830-10AM</td>
<td>R2320 BUS</td>
<td>Zimmerman</td>
</tr>
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</table>

BCOM 350 is reserved for BBA students only.

U of M Schedule of Classes Page 427 of 456
It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

<table>
<thead>
<tr>
<th>CAT#</th>
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<th>LAB FEE</th>
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<td>Independent Study</td>
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</table>

U of M Schedule of Classes Page 428 of 456
Section 001 meets with Section 451.

### Business Economics And Public Policy (BE)

**300 Applied Economics**
- **Course Title**: Applied Economics
- **CR**: 3.00
- **PREREQ**: ADVISORY
- **LOC**: Master
- **LOC**: R0230 BUS

**Seats in this course are reserved exclusively for BBA Juniors and Seniors.**

**Course Title**: Applied Economics
- **CR**: 3.00
- **PREREQ**: ADVISORY

**Seats in this course are reserved exclusively for BBA Juniors and Seniors.**

**Course Title**: Applied Economics
- **CR**: 3.00
- **PREREQ**: ADVISORY

**Seats in this course are reserved exclusively for BBA Juniors and Seniors.**

**Course Title**: Applied Economics
- **CR**: 3.00
- **PREREQ**: ADVISORY

This course is reserved for students in the Master of Management program.

**608 Health Care Markets**
- **Course Title**: Health Care Markets
- **CR**: 1.50
- **PREREQ**: ADVISORY
- **LOC**: Miller

**Course Title**: Health Care Markets
- **CR**: 1.50
- **PREREQ**: ADVISORY

**Course Title**: Health Care Markets
- **CR**: 1.50
- **PREREQ**: ADVISORY

**Course Title**: Health Care Markets
- **CR**: 1.50
- **PREREQ**: ADVISORY

### Business Law (BL)

**300 Bus Law & Ethics**
- **Course Title**: Bus Law & Ethics
- **CR**: 3.00
- **PREREQ**: ADVISORY

This course is reserved exclusively for BBA Juniors.

U of M Schedule of Classes Page 429 of 456
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
<th>CR</th>
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<th>LAB FEE</th>
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<td>24572</td>
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U of M Schedule of Classes Page 430 of 456 FA 2018 2210 05-03-2018 00:05 20532660
EMBA 602.001 is reserved for students in the Executive MBA program.

22341 P REC 812 ARR ARR Narayanan

EMBA 602.812 meets in Los Angeles, CA, and is reserved for students in the Executive MBA program.

603 Bus Analy & Stats

22342 P REC 001 FSA 8-10PM R2210 BUS Ahn

EMBA 603.001 is reserved for students in the Executive MBA program.

603 Bus Analy & Stats

22343 P REC 812 ARR ARR Ahn

EMBA 603.812 meets in Los Angeles and is reserved for students in the Executive MBA program.

604 Econ of Business

22344 P REC 001 ARR ARR Buchmueller

EMBA 604.001 is reserved for students in the Executive MBA program.

21974 P REC 812 ARR ARR Buchmueller

EMBA 604.812 meets in Los Angeles, CA, and is reserved for students in the Executive MBA program.

621 Competing on Value

22345 P REC 001 ARR ARR Manchanda

EMBA 621.001 is reserved for students in the Executive MBA program.

21975 P REC 812 ARR ARR Manchanda

EMBA 621.812 meets in Los Angeles, CA, and is reserved for students in the Executive MBA program.

634 Negotiations

24209 P REC 001 ARR ARR Kopelman

This course is reserved for Executive MBA students.

24210 P REC 002 ARR ARR Kopelman

This course is reserved for Executive MBA students.

24211 P REC 812 ARR ARR Morgan

This course is reserved for Executive MBA students.

640 Multidisc Act Proj

22756 P REC 001 TH 7-930AM R1210 BUS Lawlor

EMBA 640.001 is reserved for students in the Executive MBA program.

22757 P REC 812 ARR ARR Lawlor

EMBA 640.812 meets in Los Angeles, CA, and is reserved for students in the Executive MBA program.

651 Positive Leadership

29397 P REC 812 ARR Arr Arr

652 Strategic HR Plan

29399 P REC 001 ARR ARR Cummimg

653 Strategic Leaders

30069 P REC 812 ARR ARR Cummimg

654 Strat Mkt Digital

32937 P REC 812 ARR ARR

Entrepreneurial Studies (ES)

212 Entrep Bus Basics

25196 P RW REC 001 F 9-12PM R2230 BUS Svaan

UC 270.013 meets with ES 212.001.

23960 P RW REC 002 F 1230-330PM R2230 BUS Svaan

This class meets together with UC 270.014.

26776 P RW REC 003 MW 830-10AM B1580 BUS Johnson

250 IntrEntrepreneurship

24960 P RW REC 311 MW 1130-1PM B1580 BUS Menon

Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

329 Finan Resrch Comcial

18713 P RW REC 001 W 7-10PM ARR Brophy

ES 329 is cross-listed with FIN 329 and meets with FIN/ES 629.

24979 P RW REC 311 W 7-10PM ARR Brophy

Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

395 Entrepreneurial Mgt

10129 P RW REC 001 MW 10-1130AM B1580 BUS Middleton

399 Indep Study Project

10129 P RW REC 001 MW 10-1130AM B1580 BUS Middleton

Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

427 Family Business

24412 P RW REC 001 M 630-930PM R1230 BUS Middleton

ES 427 meets with ES 627.

444 Intr to Microfinance

25735 P RW REC 001 TTH 1130-1PM B3570 BUS Gordon
444 Intr to Microfinance
P RW REC 001 M 630-9PM ARR 3.00
2018: ES 444 meets with ES 644 on Mondays in Fall B from 6:30-9 pm in BLAU0570.

516 Entrepshp Via Acqsts
16633 P RW REC 001 M 7-10PM R0240 BUS Hiemstra 1.50
ES 516.001 meets with ES 516.451.
16634 P RW REC 451 M 7-10PM R0240 BUS Hiemstra
ES 516.451 meets with ES 516.001.

615 New Venture Creation
3.00 Price
17208 P RW REC 001 MW 1240-210PM B0560 BUS 3.00 ENFORCED
Section 001 meets with Section 451.

615 New Venture Creation
26240 P RW REC 451 MW 1240-210PM B0560 BUS 3.00 ENFORCED
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

623 Venture Capital Fin
2217 P RW REC 001 TTH 7-920PM R0220 BUS Brophy 2.25 ADVISORY
ES 623.001 is cross-listed with FIN 623 and meets with ES/FIN 623.451.
16644 P RW REC 451 TTH 7-920PM R0220 BUS Brophy
ES 623.451 is cross-listed with FIN 623 and meets with ES/FIN 623.001.

624 Private Equity Fin
16650 P RW REC 001 TTH 630-850PM R0220 BUS Brophy 2.25 ADVISORY
ES 624.001 is cross-listed with FIN 624.001 and meets with ES/FIN 624.451.
20490 P RW REC 451 TTH 630-850PM R0220 BUS Brophy
ES 624.451 is cross-listed with FIN 624.451 and meets with ES/FIN 624.001.

627 Family Business
17378 P RW REC 001 M 630-930PM R1230 BUS Middleton 1.50
ES 627.001 meets with ES 627.451.
17379 P RW REC 451 M 630-930PM R1230 BUS Middleton
ES 627.451 meets with ES 627.001.

629 Finan Resrch Comercial
3.00
17417 P RW REC 001 W 7-10PM ARR Brophy 3.00 ADVISORY
ES 629 is cross-listed with FIN 629 and meets with ES/FIN 629.329.
17798 P RW REC 002 W 7-10PM ARR Brophy
ES 629.329 is cross-listed with FIN 629 and meets with ES/FIN 329.

644 Intr to Microfinance
25736 P RW REC 001 M 630-9PM B0570 BUS 2.25
644 Intr to Microfinance
P RW REC 001 TH 210-350PM B3570 BUS 2.25
Section 001 meets with Section 451.

644 Intr to Microfinance
26241 P RW REC 451 M 630-9PM B0570 BUS 2.25
644 Intr to Microfinance
P RW REC 451 TH 210-350PM B3570 BUS 2.25
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

735 Entpml Turnrd Mgmt
1.50
21811 P RW REC 001 MW 230-4PM R0240 BUS Hall, Sinclair 1.00-3.00 ADVISORY

Finance (FIN)

300 Financial Mgt
3.00 ADVISORY
25737 P RW REC 001 TTH 830-10AM R0230 BUS Wardlaw FIN 300 is reserved for BBA juniors and seniors only.
10114 P RW REC 002 TTH 1130-1PM R1220 BUS Wardlaw FIN 300 is reserved for BBA juniors and seniors only.
10115 P RW REC 004 TTH 1-230PM R1220 BUS Wardlaw FIN 300 is reserved for BBA juniors and seniors only.

302 Making Fin Decisions
3.00 ENFORCED
22080 A R LEC 001 MW 10-11AM R1100 BUS Lei STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
22081 P RW REC 002 F 9-10AM B3570 BUS Lei This section of FIN 302 is reserved for Business Minor students. Any remaining Business Minor seats will be released on August 14 (2018) to non-Business students of sophomore standing (25+ CTP) and above. In the meantime, please add yourself to the wait list of Section 003 if one has generated.
22082 P RW REC 003 F 9-10AM B3580 BUS Lei FIN 302 is reserved for non-Business students of sophomore standing and above.
22083 P RW REC 004 F 10-11AM B3570 BUS Lei This section of FIN 302 is reserved for Business Minor students. Any remaining Business Minor seats will be released on August 14 (2018) to non-Business students of sophomore standing (25+ CTP) and above. In the meantime, please add yourself to the wait list of Section 005 if one has generated.
22084 P RW REC 005 F 10-11AM B3580 BUS Lei This section of FIN 302 is reserved for Business Minor students. Any remaining Business Minor seats will be released on August 14 (2018) to non-Business students of sophomore standing (25+ CTP) and above. In the meantime,
please add yourself to the wait list of Section 007 if one has generated.

317 Corp Financing Dec 3.00 ENFORCED
10117 P RW REC 001 TTH  830-10AM B3570 BUS Caldera
FIN 317 is reserved for BBA Juniors and Seniors with some seats reserved exclusively for Business Minor students.
24962 P RW REC 311 TTH  830-10AM B3570 BUS Caldera
Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

329 Finan Resrch Comcial 3.00
17418 P RW REC 001 W 7-10PM ARR Brophy
FIN 329 is cross-listed with ES 329 and meets with FIN/ES 629.
24963 P RW REC 311 W 7-10PM ARR Brophy
Section 311 meets with Section 001. Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

335 Maize and Blue Fund 1.50 ADVISORY
20888 PI SEM 001 T  630-930PM R0400 BUS Dittmar
FIN 335 is cross-listed with ACC 335, meets with ACC/FIN 725.

342 Big Data in Finance 3.00 ADVISORY, ENFORCED
32869 P RW REC 001 TTH  1130-1PM R0400 BUS Schmalz
32870 P RW REC 002 TTH  1-230PM R0400 BUS Schmalz

399 Indep Study Project I 1.00-3.00 ADVISORY
01191 P RW REC 001 M 10-1PM R1220 BUS Hall
FIN 399 is cross-listed with FIN 699, meets with FIN/ES 699.

412 Intl Fin Mngmnt I 1.50 ADVISORY
21400 P RW REC 001 MW 230-4PM B0560 BUS Pasquariello
This class runs parallel with FIN 612, and as such, will meet on October 15th.
24964 P RW REC 331 MW 230-4PM B0560 BUS Pasquariello
Seats in this section are reserved exclusively for Master of Management students.

414 Intl Fin Mngmnt II 1.50 ADVISORY
21401 P RW REC 001 MW 230-4PM R0240 BUS Pasquariello
24965 P RW REC 331 MW 230-4PM R0240 BUS Pasquariello

415 Corp Investment Dec 3.00 ADVISORY
10116 P RW REC 001 M 10-1PM R1220 BUS Hall
14562 P RW REC 002 M 1-4PM R1220 BUS Hall
24966 P RW REC 331 M 10-1PM R1220 BUS Hall

417 Real Est Ess 3.00 ADVISORY, ENFORCED
10106 P RW LEC 001 M 7-10PM R0230 BUS Allen
517 Real Est Ess 3.00 ADVISORY

503 Fin Mgmt 2.25 ENFORCED
17245 P R REC 001 MW  8-1020AM R1240 BUS Zeume
17246 P R REC 002 MW  8-1020AM R1230 BUS Rajan
17247 P R REC 003 MW 1020-1240PM R1240 BUS Zeume
17248 P R REC 004 MW 210-430PM R0230 BUS Zeume
17249 P R REC 005 MW 1020-1240PM R1230 BUS Rajan

513 Financial Analysis 2.25 ENFORCED
23562 PIR REC 001 MTW 1240-210PM R0210 BUS Narayanan
517 Real Est Ess 3.00 ADVISORY

551 Finan Mgt & Pol 3.00 ENFORCED
10119 P RW REC 451 T  630-10PM R2230 BUS Carmel
551 Finan Mgt & Pol 3.00 ENFORCED

580 Corp Fin Derivatives 2.25 ADVISORY
17209 P RW REC 001 TTH 1020-1240PM B0570 BUS Seyhun
608 Captl Mkt&Inv Strat 2.25 ENFORCED
16621 P RW REC 001 MW  630-850PM R2220 BUS Lei

513 Financial Analysis 2.25 ENFORCED
23562 PIR REC 001 MTW 1240-210PM R0210 BUS Narayanan
10106 P RW LEC 001 M 7-10PM R0230 BUS Allen

608 Captl Mkt&Inv Strat 2.25 ENFORCED
16621 P RW REC 001 MW  630-850PM R2220 BUS Lei
FIN 608.001 meets with FIN 608.451.
26465 P RW REC 010 MW  630-850PM R2220 BUS Lei

612 Intl Fin Mngmnt I 1.50 ADVISORY
16622 P RW REC 001 MW 1240-210PM R0230 BUS Pasquariello
18077 P RW REC 002 W 7-10PM R1220 BUS Pasquariello
FIN 612.003 meets with FIN 612.451.
18078 P RW REC 451 W 7-10PM R1220 BUS Pasquariello
FIN 612.451 meets with FIN 612.003.

614 Intl Fin Mngmnt II 1.50
16646 P RW REC 001 MW 1240-210PM R0230 BUS Pasquariello
Section 001 meets with Section 451.
17652 P RW REC 451 MW 1240-210PM R0230 BUS Pasquariello
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

615 Valuation 2.25 ADVISORY, ENFORCED
16623 P RW REC 001 TTH 1020-1240PM B0560 BUS Whitehead
16624 P RW REC 002 TTH 210-430PM B0560 BUS Whitehead
26821 PIR REC 003 MW  8-1020AM R1240 BUS Narayanan
This section of FIN 615 is reserved exclusively for students in Track 2 of the Fast Track in Finance program.

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This section of FIN 615 is reserved exclusively for students in Track 1 of the Fast Track in Finance program.

Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

FIN 623.001 is cross-listed with ES 623 and meets with ES/FIN 623.451. FIN 623.451 is cross-listed with ES 623 and meets with ES/FIN 623.001.

FIN 624.001 is cross-listed with ES 624 and meets with FIN 624.451/ES 624.451. FIN 624.451 is cross-listed with ES 624 and meets with FIN/ES 624.001.

FIN 725 is cross-listed with ACC 725, meets with ACC/FIN 335.

FIN 629.001 is cross-listed with ES 629 and meets with FIN/ES 329. This class meets in the Colloquium (6th floor of the Ross building) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.

FIN 629 is cross-listed with ES 629 and meets with FIN/ES 329. This class meets in the Colloquium (6th floor of the Ross building) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.

FIN 855 is TBD.

FIN 312 meets with Section 002. Seats in Section 312 are reserved exclusively for Minor in Business students.

Section 312 meets with Section 002. Seats in Section 312 are reserved exclusively for Minor in Business students.

Section 312 meets with Section 002. Seats in Section 312 are reserved exclusively for Minor in Business students.

Instructor monitors waitlist; add yourself to the waitlist to be considered.

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Seats in this section are reserved exclusively for Minor in Business students.

Section 312 meets with Section 002. Seats in Section 312 are reserved exclusively for Minor in Business students.

Section 311 meets with Section 001. This section is reserved exclusively for Minor in Business students.

Section 001 meets with Section 331. Section 331 is reserved exclusively for Master of Management students.

Section 001 meets with Section 331. Section 331 is reserved exclusively for Master of Management students.

Seats in this section are reserved exclusively for Minor in Business and Master of Management students.

The first meeting of MKT 503 Section 001 takes place on Thursday, October 29, in R0220 from 4:30pm-6:50pm. If you are unable to accommodate this in your schedule, you may attend the 2:10pm section in R2240 the same day.

Section 002 meets with Section 451. This section is reserved exclusively for Evening MBA students.

Section 001 meets with Section 451. Section 451 is reserved exclusively for Evening MBA students.

This class is cancelled.

This class is cancelled.

This is a cross-listed course.

This class is cancelled.
Management and Organizations (MO)

300 Behavior Theory Mgt
- 3.00
- ADVISORY
- 137.00

MO 300 is reserved exclusively for BBA Juniors.

24538 P RW REC 001 TTH 230-4PM R2230 BUS Lee

24539 P REC 002 TTH 10-1130AM R1240 BUS Uribe

24540 P REC 003 TTH 830-10AM R1240 BUS Uribe

24541 P REC 004 TTH 4-530PM R2230 BUS Hwang

24542 P REC 005 TTH 1-230PM R2230 BUS Uribe

24543 P REC 006 TTH 1130-1PM R2230 BUS Lee

24544 P REC 007 TTH 1130-1PM R0240 BUS Uribe

24545 P REC 008 TTH 10-1130AM R1240 BUS Uribe

302 Pos Lead People&Org
- 3.00
- ENFORCED
- 122.00

319 Dev Global Competenc
- 1.00
- ADVISORY

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This course is complementary to BCOM 510 and both can be taken in either order.

<table>
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<td>11/3 8:30am-1pm</td>
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This course is reserved for students in the Master of Management program.

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MO 561.001 meets with MO 561.451. Section 451 is reserved exclusively for Evening MBA students. 
2018 dates: 9/21 8:30am-6pm
9/22 8:30am-12pm
10/12 & 10/13 8:30am-6pm
11/3 8:30am-1pm

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MO 561.001 meets with MO 561.451. Section 451 is reserved exclusively for Evening MBA students. 
2018 dates: 9/21 8:30am-6pm
9/22 8:30am-12pm
10/12 & 10/13 8:30am-6pm
11/3 8:30am-1pm

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This class will take place in the "A" (first 7 week) half-term, MO 567 Section 001 is combined with Section 451. 
MO 567 Section 451 is combined with Section 001. Sections which begin with "45" are reserved exclusively for Evening MBA students. All other students should enroll in (or add to the waitlist) of Section 001.

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This class will meet in the Ross Colloquium on 11/20.

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This class will meet in the Ross Colloquium on 11/20.

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U of M Schedule of Classes Page 437 of 456
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<td>3.00 ADVISORY</td>
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<td><strong>Indep Study Project</strong></td>
<td>1.00-3.00 ADVISORY</td>
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<td><strong>Bus Model Innovation</strong></td>
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New York City

MO 594 is an elective for students in the Global MBA program at the Ross School of Business. Students enrolled in this course will travel to New York during the week between Fall A and Fall B classes.

2018 Meeting Dates: September 7, 14, 21, 22, 28, and 29, and October 5 and 12.

TO 300 is reserved exclusively for Evening MBA students.

TO 301 is reserved exclusively for incoming BBA students.

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<td>R2210 BUS</td>
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U of M Schedule of Classes Page 440 of 456
TO 548 meets with IOE 548 and ARTDES 416. Ross students should register for BOTH TO 548 and IOE 548 for a total of 6 credit hours.

557 Bus Stat & Analytic
23949 P R REC 001 MW 1020-1240PM R1210 BUS Morgan
This course is reserved for students in the Master of Management program.

566 Dat Mine Regr Analys
24642 P R REC 001 TTH 1240-210PM R2210 BUS Ahn
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

582 Action Learning Proj
21294 P RW REC 001 M 7-10PM R2230 BUS Kapuscinski
This class will be offered as 1.5 credits in Fall B and 1.5 credits in Winter A.

618 Appl Bus Analytics
24911 P RW REC 001 T 9-12PM B2560 BUS Ahn
This class is reserved for MSCM students.

620 Global Sup Chain Mgt
17235 P RW REC 001 MW 210-430PM R0230 BUS Anupindi
TO 620 is cross-listed with MKT 640.

626 Mobile Innov Develop
26675 P RW REC 001 TH 1020-1240PM B0560 BUS Kumar

701 Topc Glob Operations
19423 PI RW SEM 001 TH 630-930PM R2210 BUS Beil
TO 701 meets with MFG 501.

703 Tauer Inst Team Prj
17255 PI REC 001 ARR ARR Beil
TO 703 meets Winter B - Fall A. Students who registered for this course in Winter B will be required to complete this Fall A section to receive full course credit.

750 Independent Study
1.00-3.00

U of M Schedule of Classes Page 441 of 456
Weekend Master of Business Administration (WMBA)

**Corporate Strategy**
- **Course Title**: Corporate Strategy
- **Credit Hours**: 2.25
- **Class #**: 505
- **Days**: F
- **Time**: 4-10PM
- **Location**: R0210 BUS
- **Instructor**: Afuah

**Managerial Acct**
- **Course Title**: Managerial Acct
- **Credit Hours**: 2.25
- **Class #**: 507
- **Days**: F, SA
- **Time**: 8-6PM
- **Location**: R0230 BUS
- **Instructor**: Oswald

**Operations Mgmt**
- **Course Title**: Operations Mgmt
- **Credit Hours**: 2.25
- **Class #**: 508
- **Days**: F
- **Time**: 4-10PM
- **Location**: R0240 BUS
- **Instructor**: Hopp

**Comm to Convince**
- **Course Title**: Comm to Convince
- **Credit Hours**: 0.75
- **Class #**: 526
- **Days**: ARR
- **Time**: ARR
- **Location**: ARR
- **Instructor**: Hopp

**Global Sup Chain Mgt**
- **Course Title**: Global Sup Chain Mgt
- **Credit Hours**: 2.25
- **Class #**: 611
- **Days**: ARR
- **Time**: ARR
- **Location**: ARR
- **Instructor**: Anupindi

**Bargain&lnf Skills**
- **Course Title**: Bargain&lnf Skills
- **Credit Hours**: 2.25
- **Class #**: 612
- **Days**: ARR
- **Time**: ARR
- **Location**: ARR
- **Instructor**: Kopelman

**Strat Cost Management**
- **Course Title**: Strat Cost Management
- **Credit Hours**: 2.25
- **Class #**: 613
- **Days**: ARR
- **Time**: ARR
- **Location**: ARR
- **Instructor**: Klemstine

**Analytic&Decisions**
- **Course Title**: Analytic&Decisions
- **Credit Hours**: 2.25
- **Class #**: 623
- **Days**: ARR
- **Time**: ARR
- **Location**: ARR
- **Instructor**: Hojjat
Social Work
School Of Social Work

Social Work (SW)

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Skills for Patient-Family-Cent
THIS CLASS IS ONLY AVAILABLE TO DENTAL HYGIENE STUDENTS.

Real Wld Perspc Poverty Solv
This class will meet 8 times during the term. Dates TBD.

Only incoming MSW students enroll in this mini course.

Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 521. Detroit Clinical Scholars and New Leaders in African Centered Social Work Scholars (Interpersonal Practice concentration) should enroll in this section. Any other students should select a different section or will need to submit a Course Enrollment Petition via the School of Social Work web site.

Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students admitted prior to the Fall 2017 term should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 002 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 003 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 004 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 005 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 006 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 007 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 008 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 009 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 010 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 011 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 012 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 013 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 014 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 015 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 016 of SW 521.

Incoming Students - By enrolling in this section you are also committed to enroll in section 017 of SW 521.
Incoming Students - By enrolling in this section you are also committed to enroll in section 008 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 007 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 006 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 005 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 004 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 003 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 002 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

521 IP Indiv Fam Groups 3.00 ENFORCED

520 Ind Stds Hum Behav 1.00-3.00 ADVISORY

519 Ind Stds Hum Behav 1.00-3.00 ADVISORY

518 Ind Studies Aging 1.00-3.00 ADVISORY

517 Ind Studies Aging 1.00-3.00 ADVISORY

516 Fndtn Fld Instructn I 1.00-2.00

515 Topics in Social Wrk I ARR 3.00

513 Mac Prac Skills Lab 3.00

512 PDR LEC 001 M 2-5PM B798 SSWB Doyle

Enrollment is not permitted in this section. Select another section.

24867 PDR LEC 005 M 2-5PM B770 SSWB Ribaudo

Incoming Students - By enrolling in this section you are also committed to enroll in section 005 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

24866 PDR LEC 006 T 2-5PM B856 EQ Ribaudo

Incoming Students - By enrolling in this section you are also committed to enroll in section 006 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

24865 PDR LEC 007 M 6-9PM B798 SSWB Pitcher

Incoming Students - By enrolling in this section you are also committed to enroll in section 007 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

24864 PDR LEC 008 M 2-5PM B780 SSWB Tolman

Incoming Students - By enrolling in this section you are also committed to enroll in section 008 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

24863 PDR LEC 009 M 2-5PM 3816 SSWB

Incoming Students - By enrolling in this section you are also committed to enroll in section 009 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

24862 PDR LEC 010 W 5-8PM 3816 SSWB Radzilowski

Incoming Students - By enrolling in this section you are also committed to enroll in section 010 of SW 521. Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

510 PDR LEC 013 M 6-9PM ARR

More information on the description of this course may be found on the SSW web site, https://ssw.umich.edu/courses/fall-2018/20192
### Incoming Students
- By enrolling in this section you are also committed to enroll in section 009 of SW 511.
- 25461 PDR LEC 010 T 6-9PM 3816 SSWB Gutierrez
- 26334 P R LEC 011 T 9-12PM 1804 SSWB Price
- 26798 P R LEC 012 W 9-12PM 1804 SSWB Price

Macro students only enroll in this section.
- 29210 P R LEC 013 W 5-8PM B780 SSWB Ruffolo

This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions.

<table>
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<tr>
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This is for returning MSW PCMI students only.

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This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions.

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### Incoming Students
- By enrolling in this section you are also committed to enroll in section 002 of SW 511.
- 25461 PDR LEC 010 T 6-9PM 3816 SSWB Gutierrez
- 26334 P R LEC 011 T 9-12PM 1804 SSWB Price
- 26798 P R LEC 012 W 9-12PM 1804 SSWB Price

Macro students only enroll in this section.
- 29210 P R LEC 013 W 5-8PM B780 SSWB Ruffolo

This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions.

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### Incoming Students
- By enrolling in this section you are also committed to enroll in section 001 of SW 512.
- 14807 PDR LEC 001 M 9-12PM 1804 SSWB Gonzalez Benson
- 14808 PDR LEC 002 M 9-12PM 3752 SSWB Blackburn
- 14809 PDR LEC 003 T 6-9PM 3816 SSWB Wachendorfer

Continuing students need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.

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### Incoming Students
- By enrolling in this section you are also committed to enroll in section 002 of SW 512.
- 14807 PDR LEC 001 M 9-12PM 1804 SSWB Gonzalez Benson
- 14808 PDR LEC 002 M 9-12PM 3752 SSWB Blackburn
- 14809 PDR LEC 003 T 6-9PM 3816 SSWB Wachendorfer

Continuing students need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.
This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions. This section will meet in person, in class on the following dates:
9/10, 10/8, 11/12, 11/26, 12/10.

This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions. This section will meet in person, in class on the following dates:
TBA

The course description can be found at: https://pharmacy.umich.edu/service. Note that permission is required to register for this course. Kineslgy 581, MoveSci 481, Pharmacy 503, PubHlth 503, and Social Work 573 are cross listed courses. If you would like to register for Kineslgy 581, MoveSci 481, SW 573 or PubHlth 503 please send a request, including your student ID#, to ServiceForHealth@umich.edu.
<table>
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<td>9-12PM</td>
<td>B780 SSWB</td>
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This section of SW 683 will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions. Please consider this when choosing a section in which to enroll.

This section of SW 683 will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions. Please consider this when choosing a section in which to enroll.

Enrollment is not permitted in this section. Select another section.

This course is for JCLP students only who will receive an electronic permission prior to registration to allow for enrollment in the course.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This course will require students to develop creative approaches to reducing the risk of brain injury in youth and high school football. Students will work in multi-disciplinary teams, under the guidance of experts from law, engineering, medicine, nursing, public health, kinesiology, and social work who are eligible to enroll in this course.

This course will have an Interprofessional Education (IPE) focus. Graduate students from pharmacy, dentistry, medicine, nursing, public health, kinesiology, and social work are eligible to enroll in this course.

This class is expected to spend additional time outside of class contacting experts and researching scientific and lay materials.

At the end of the term, students will present a proposal to an expert review panel.

This is the capstone course for the Community Scholars. Scholars will receive an electronic permission to enroll in this course prior to registration. All others must submit a Course Enrollment Petition. This class meets on October 12, 19, 26 and November 2 & 9.

This is the capstone course for Integrated Health Scholars. Scholars will receive an electronic permission to enroll in this course prior to registration. This class meets on October 9, 14, 29, 10/12, 10/16, 11/16, 11/30, 12/7.

This course is for Detroit Clinical Scholars only. Scholars will receive an electronic permission to enroll in this course prior to registration. All others must submit a Course Enrollment Petition via the SSW web site.

This course is the capstone course for the Child Welfare Scholars. Scholars will receive an electronic permission to enroll in this course prior to registration. This course will meet on: 9/27, 10/25, 11/8, 11/29, 12/6.

This course will have an Interprofessional Education (IPE) focus. Graduate students from pharmacy, dentistry, medicine, nursing, public health, kinesiology, and social work are eligible to enroll in this course.

This class will count toward graduation or other departmental requirements. Note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI course will count toward graduation or other departmental requirements.

Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). This problem solving course will challenge a multidisciplinary team of students to address a real-world problem in the rapidly-evolving connected and automated vehicle landscape. The Detroit Metro area and the University of Michigan are leading the world in research and deploying technological advances in vehicle connectivity and automation. The potential benefits of "driverless cars" are widely understood, but the path to getting from the current state of human driving to a world of interconnected and "self-driving" vehicles entails an overwhelming confluence of technological, societal, legal, regulatory, political, and business problems. This course will focus on one particular angle: the potential multiple problems created by the unavoidable future interactions between automated vehicles and other road users, such as non-automated, human-driven vehicles, pedestrians, and bicyclists. Classes will be run as discovery sessions with industry, governmental, and academic experts. Students working in multidisciplinary sub-teams will delve deeply into particular aspects of the problem with the course culminating in the creation of an integrated class deliverable in the form of a business or operational plan proposing concrete solutions to the problem.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). We are facing what might be described as a failure or crisis of public trust in sources of truth about matters of fact. Public officials and accuse each other of lying. Media outlets present competing narratives. People do not know whom to trust or believe. Misinformation and conspiracy theories spread through social media. Our aim in this course will be to identify concrete potential interventions, solutions, or avenues for future exploration that might help people identify and trust sources of truth and/or that might mitigate the spread of misinformation. We will draw in insights from a range of inter-connected fields, including (but not limited to): psychology, communications, journalism, social media, information, computer science, law, and history.

At the end of the term, students will present a proposal to an expert panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In India -- as in many parts of the world -- economic growth and development have created key focus areas for successive governments. However, development often generates costs that force us to address difficult tradeoffs stemming from certain policies and reforms, such as the possible advantages to enhancing economic well-being versus the potential threats to the environment and heritage preservation. For example, although India has obtained substantial economic growth in the last two decades, there has also been deterioration in several aspects of India's heritage, as only a small fraction of pre-colonial monuments in India receive federal protection and many of these (including many iconic Indian sites) face threats from demolition, desecration, decay, pollution, and other perils. In this problem solving course, we will focus on these kinds of issues in the Indian context and explore what the role of the law and other disciplines are, and could be, in mediating and balancing these concerns in concrete contexts.

We will first survey the salient features of India's Constitution and politics and the state of its economy and its environment. This will involve examining laws and policies related to property, judicial process, contract, tourism, historic preservation, and intellectual property amongst others. Along with this, we will examine theories and practices of historic preservation and consider the protection of, and pressures on, monuments and sites, as well as other aspects of India's heritage (e.g., traditional knowledge). Thereafter, we will focus on an imperiled landscape in western India where 500 medieval temples stand around the periphery of a reservoir. We will conceptualize solutions that might promote its holistic renewal and serve as guidelines for the preservation of other sites of historical significance.

Class time will focus on providing background information and discussion with topical experts, such as archaeologists, attorneys, top bureaucrats, environmentalists, journalists, urban planners, and other stakeholders. Students are expected to spend additional time outside class contacting experts and performing research. At the end of the term, students will present a proposal to an expert review panel.

This is a prof pick class and is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.
Students may apply for the course by submitting the required application materials to the PSI registration site (https://problemsolving.law.umich.edu/) between February 23, 2018, and March 16, 2018.

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