## Architecture & Urban Planning

### College of Architecture & Urban Planning

#### Architecture (ARCH)

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Please consult the University of Michigan Schedule of Classes for detailed course information and updates.
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U of M Schedule of Classes Page 6 of 481
### Dentistry

**School Of Dentistry**

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| 602  | Ofacial Pain&Funct    | 1.00 | ADVISORY | de Peralta, Johnson, Fitzgerald |
| 603  | Paras Oral Cav        | 1.00 | ADVISORY | de Peralta, Johnson, Fitzgerald |
| 604  | Craniofac Dev&Grow   | 1.00 | ADVISORY | de Peralta, Johnson, Fitzgerald |
| 605  | Paras Oral Cav        | 1.00 | ADVISORY | de Peralta, Johnson, Fitzgerald |

U of M Schedule of Classes Page 12 of 481
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This course is held concurrent with RESTORA 871 in room 2397.
## 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 permissions (overrides) are available in the office of student services, Room 1033 SEB, (734-764-7563).

### School Of Education

#### Education C Behavioral Sciences In Education (EDBEHAVR)

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<tr>
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#### Education D Curriculum and Instruction (EDCURINS)

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#### Education (EDUC)

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For Secondary Winter ENGLISH students only. Concurrent registration in EDUC 304-001 required. Choose S/U grading option.

For Secondary Winter ENGLISH students only. Concurrent registration in EDUC 304-002 required. Choose S/U grading option.

For Secondary Winter MATH students only. Concurrent registration in EDUC 304-003 required. Choose S/U grading option.

For Secondary Winter SCIENCE students only. Concurrent registration in EDUC 304-004 required. Choose S/U grading option.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 304-005 required. Choose S/U grading option.


For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 304-010 required. Choose S/U grading option.

For Secondary Winter ENGLISH students only. Concur reg in EDUC 301-001 required. Second year elementary cohort 1 and 2.

For Secondary Winter ENGLISH students only. Concur reg in EDUC 301-002. Second year elementary cohort 2.

For Secondary Winter ENGLISH students only. Concurrent registration in EDUC 301-003 required. Second year elementary cohort 1 and 2.

For Secondary Winter ENGLISH students only. Concurrent registration in EDUC 301-004 required. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-005 required. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-006. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-007. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-008. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-009. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-010. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-011. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-012. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-013. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-014. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-015. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-016. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-017. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-018. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-019. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-020. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-021. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-022. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-023. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-024. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-025. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-026. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-027. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-028. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-029. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-030. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-031. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-032. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-033. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-034. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-035. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-036. Second year elementary cohort 2.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-037. Second year elementary cohort 1.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 301-038. Second year elementary cohort 2.
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<p>| 10544  | P R LAB 002 T                        |      |        |         |
| 307    | Practicum                           | 1.00-2.00 | ADVISORY |
|        | First Year Elem students only (Cohort 2.) |      |        |         |
| 16123  | P R LAB 020 THF                     | 1.00-2.00 | ADVISORY |
|        | Sec SOCIAL STUDIES Winter Cohort students. Fieldwork on Th/F mornings. Students must attend Practicum Orientation. |      |        |         |
| 307    | Practicum                           | 1.00-2.00 | ADVISORY |
|        | Sec MATH and SCIENCE Winter Cohort students only. Fieldwork on Th/F mornings. Students must attend Practicum Orientation. |      |        |         |
| 307    | Practicum                           | 1.00-2.00 | ADVISORY |
|        | Secondary ENGLISH Winter cohort students only. Fieldwork on Th/F mornings. Students must attend Practicum Orientation. |      |        |         |
| 310    | Independent Study                   | 1.00-6.00 |         |
| 317    | Observ-Particip Ed                  | 1.00-8.00 | ADVISORY |
| 320    | Honors Ind Study                    | 1.00-6.00 | ADVISORY |
| 330    | ED Empwrmt Internshp                | 1.00-4.00 | ADVISORY |
| 333    | Video Games&amp;Learning                | 3.00   |         |
| 19479  | P RW LEC 001 T                      | 3.00   |         |
| 360    | Partners in Learning                | 3.00   |         |
| 362    | Mich Stdent Caucus                  | 4.00   | 30.00   |
| 365    | Intl Poetry Guild                   | 3.00   | 30.00   |
| 390    | Comm Learn in ESL                   | 3.00   |         |
| 392    | Educ Multicult Soc                  | 3.00   |         |
| 395    | Teach ESL Migt Comm                 | 3.00   |         |
| 403    | Ind Rdg Instr Elem                  | 3.00   |         |
| 414    | Managing to Teach                   | 1.00   |         |
| 415    | Children Sensemakers                | 2.00   |         |
| 431    | Tchg Soc St Ele Sch                 | 3.00   |         |</p>
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<td>Hearn</td>
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<td>Intrn&amp;Dir Field Exp</td>
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Meets with EDUC 551.

Graduate Standing. Students should obtain permission from instructor and then complete online form located at https://sitemaker.umich.edu/soe.ispe/request.
Secondary MAC SOCIAL STUDIES students enrolled in ESL program. Concurrent registration in EDUC 654-012 required. Choose letter grading option. This is a "Y" course.

**653 Prob-Prin Elem Ed**
- 25454: P R SEM 001 W 4-6PM ARR Cornish
- For Elmac 22 students only.
- 25455: P R SEM 002 W 4-6PM ARR Coultas
- For Elmac 22 students only.
- 25456: P R SEM 003 W 4-6PM ARR Madden
- For Elmac 22 students only.
- 25457: P R SEM 004 W 4-6PM ARR Kademian
- For Elmac 22 students only.
- 29089: P R SEM 005 W 4-6PM ARR Robertson
- For Elmac 22 students only.

Secondary MAC ENGLISH students only. Concurrent registration in EDUC 652-001 required. Choose letter graded option. This is a "Y" course.

**655 Dir Resear Ed Study**
- 25523: P R SEM 001 T 4-6PMARR Graham
- Secondary MAC ENGLISH students only. Concurrent registration in EDUC 652-001 required. Choose letter graded option. This is a "Y" course.

Secondary MAC MATH students only. Concurrent registration in EDUC 652-002 required. Meets with EDUC 304-003.

Secondary MAC SCIENCE students only. Meets with EDUC 304-004 & EDUC 654-004. Concurrent registration in EDUC 652-004 required. Choose letter graded option. This is a "Y" course.

Secondary MAC SOCIAL STUDIES students only. Meets with EDUC 304-005, 304-006 & 654-005. Concurrent registration in EDUC 652-005 required. Choose letter graded option. This is a "Y" course.

Secondary MAC SOCIAL STUDIES students only. Meets with EDUC 304-005, EDUC 304-006 & 654-005. Concurrent registration in EDUC 652-006 required. Choose letter graded option. This is a "Y" course.

Secondary MAC WORLD LANGUAGES students only. Concurrent registration in EDUC 652-007 required. Choose letter graded option. This is a "Y" course.

**656 Global English Role**
- 28890: P RW SEM 001 T 9-12PM 2346 SEB Graves

**657 Practicum Ed Study**
- 30297: P RW SEM 001 W 3-4PM ARR Crane, Wu, Carr

Students should obtain permission from instructor and then complete online form located at https://sitemaker.umich.edu/soe.ispe/request.

**659 MA Res Pract in HE**
- 29212: P R SEM 008 TH 5-7PM 2228 SEB McDermott

**662 Lrng&Dev Higher Ed**
- 28603: P RW SEM 001 W 9-12PM 2346 SEB King

**714 Causal Infer Postsec**
- 25770: P RW SEM 001 TH 10-1120AM 1220 WEILL Dynarski, Stange

**717 Interdisc Prob Solv**
- 10200: P LAB 001 W 3-4PM 315-415PM ARR Crane, Wu, Carr

**717 Interdisc Prob Solv**
- 10200: P LAB 001 W 3-4PM 315-415PM ARR Crane, Wu, Carr

Connected Vehicles Sitzen Diff
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and
what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The extraction of minerals used to manufacture automobile batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The federal government funds many crucial social services for the poor. However, individual states -- which are rarely the focus of policy debates about social services -- are usually responsible for overseeing the provision of those services. This course will focus on emerging challenges to the delivery of social services in Michigan, including Medicaid, food stamps, and TANF. Working closely with officials from the Michigan Department of Health and Human Services, students will devise potential solutions to problems with the
administration of state benefits for vulnerable populations.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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Students should obtain permission from instructor and then complete online form located at https://sitemaker.umich.edu/soe.ispe/request.

For 1st year ES PhD students. Meets with EDUC 591-001. SOE PhD and MA students have priority. Outside SOE students should check with Tina at tsanf@umich.edu after Dec. 1st for any open seats.

Concurrent reg in EDUC 793-001. Priority enrollment offered to First Year ES PhD students. First class is on January 8, 2020. Instructor permission required. SOE PhD students have priority. Outside SOE students should check with instructor after Dec. 1st for any open seats.

Concurrent reg in EDUC 793-001. Priority enrollment offered to First Year ES PhD students. First class is on January 10, 2020. Instructor permission required. SOE PhD students have priority. Outside SOE students should check with instructor after Dec. 1st for any open seats.

Augmented Section

Meets with PUBPOL 639. For Education PhD students only. Prerequisite EDUC 793 or equivalent w/minimum grade of B-.

Non-exp Res Meth 16130

Prereq: EDUC 793 or equivalent; Students are auto-enrolled in Lec 001 when they elect Lab 002
To be taken in conjunction with EDUC 795-001. Students are auto-enrolled in Lec 001 when they elect Lab 002.

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Students should obtain permission from instructor and then complete online form located at https://sitemaker.umich.edu/soe.ispe/request.

For Education students only. Friday classroom will be inside 4009 suite in ES Student Lounge behind the kitchen.

For first year Ed Studies Ph.D. students only. Meets with EDUC 898-002.

For second year Ed Studies Ph.D. students only.

For Education students only. Friday classroom will be inside 4009 suite in ES Student Lounge behind the kitchen.

Prerequisite: Permission of Instructor

Prerequisite: Doctoral candidate
Engineering

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

Aerospace Engineering

Aerospace Engineering (AEROSP)

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Biomedical Engineering

Biomedical Engineering (BIOMEDE)

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Students are required to have completed Bio 172 or 174 (Intro to Bio), Math 116, & Engr 101 or EECS 183 (Intro to coding).
It is CRITICAL that students attend class from the beginning. Each laboratory session provides hands-on instruction and requires reserved time on a particular imaging system, making attendance for each class mandatory. If traveling during the winter break, plan ahead and allow sufficient time in order to be present at the start of the Winter Term.

First four classes will be held in 2185 LBME, the following locations will be provided by instructor:

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Only offered even years in Winter semesters.

588 Global Qual Syst | 2.00 | ADVISORY |
| 23367 | PD | LEC | 001 | TH | 430-630PM | 1005 DOW | Greve |

590 Directed Research | D IND + | 1.00-16.00 | ADVISORY |
| 591 M S Thesis | I IND + | 1.00-16.00 | ADVISORY |

599 Special Topics | 2.00-4.00 |
| 18623 | PD | LEC | 004 | MW | 10-12PM | 3150 DOW | Stegemann, Komaiha |

Grad BME Innovat Design Pt II

Student must have completed Grad BME Innovat Design Pt I or have instructor approval to take this course.

990 Diss-Precand | 1.00-8.00 | ADVISORY |
| 995 Diss-Cand | D IND + | ARR | ARR | 8.00 | ENFORCED |
## Climate and Space Sciences Engineering

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### Data Analysis & Visualization

An introduction to data analysis and visualization for climate and space scientists and engineers. This is an upper-level undergraduate course focusing on fundamental data science, analysis, and visualization techniques, using Python with examples from space physics and climate science. No experience with Python is required but familiarity with programming is recommended.

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### Course Description

Remote Sensing

Weather and Reporting covers:

- Weather
- Weather analysis & forecasting
- Communicating weather to any audience

Blurb

*Andrew Humphrey, a CLaSP alum and WDIV-TV Meteorologist and Reporter, is teaching an exciting new course this Winter 2019 semester. Weather and Reporting is a course designed to give students a basic understanding of weather and weathercasting to ensure accurate and responsible communication about weather phenomena to any audience.

If you are interested, please consider registering for this course ASAP. Contact Andrew Humphrey at 1 (313) 410-5232 (m) or weather@umich.edu.

**Course Description**

Weather and Reporting is a course designed to give students a basic understanding of weather and weathercasting to ensure accurate and responsible communication about weather phenomena to any audience.
<table>
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**Space Science and Engineering (SPACE)**

101  | Rocket Science            | 3.00 |
280  | Ugrad Res Experience      | 1.00-4.00 |
321  | Earth System Dynanm       | 3.00 | ADVISORY |
332  | Earth Sys Analysis        | 4.00 |
350  | Atm Thermo                | 3.00 | ENFORCED |
381  | Ugrad Res Exper II        | 1.00-4.00 |
405  | Special Topics            | 1.00-4.00 |
26942 | Data Analysis & Visualization |       |
431  | Wireless Link             | 4.00 | ENFORCED |
477  | Space Wthr Modeling       | 4.00 |
495  | Directed Study            | 1.00-16.00 |
501  | Climate, Atmos & Sp Sci   | 1.00 |
532  | Radiative Tran            | 4.00 | ADVISORY |
565  | Planet Sci                | 4.00 | ADVISORY |
583  | Space Sys Des Mgt         | 4.00 | ADVISORY, ENFORCED |
584  | Space Mission Design      | 3.00 | ADVISORY |
586  | Adv Data Analysis         | 1.00-4.00 | ADVISORY |
590  | Space Systems Proj        |      |        |
474  | Student Seminar           | 1.00 |
479  | Clasop Seminar            | 1.00 |

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**Lab Fee:**

- ENFORCED: Required fee is enforced.
- ADVISORY: Fee is advisable but not required.
- IR IND: Instructor recommended, independent study allowed.
### Chemical Engineering Department

### Chemical Engineering (CHE)

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

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

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

**Only offered every years in Winter semesters.**

---

**IND:** Independent study

**ARR:** Arranged

**ADVISORY:** Advised

**ENFORCED:** Enforced

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**U of M Schedule of Classes Page 34 of 481**

**WN 2020 2270 03-05-2020 12:03 22412849**
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Civil And Environmental Engineering (CEE)

200 Intro to CEE
211 Statics & Dynamics
212 Solid & Struct Mech
265 Sus Engr Prin
303 Comp Meth Engr
307 Sustainable Cities
325 Fluid Mechanics
331 Constr Mgmt
345 Geotech Engr
351 Civil Engr Material
366 Env Engr Lab
375 Sensors and Circuits
402 Prof Issues & Des
450 Design RC Structures
465 Env Process Engr
481 Aquatic Chemistry
490 Independent Study
501 Special Topics CEE

Civil And Environmental Engineering (CEE)

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Subsurface Energy Systems

This course is designed to introduce students to engineered subsurface systems with an emphasis on technologies relevant to the energy sector, including unconventional oil and gas production and geologic carbon storage. Students will be introduced to the fundamentals of reservoir geology, flow through porous and fractured media, fluid-rock interactions, and geochemical alterations resulting from fluid injection and extraction. Course deliverables will include a design project using reactive transport modeling to study fluid fate and transport within the context of a particular engineered subsurface system. The goal of this course is to help students gain a broad understanding of subsurface energy systems and learn to view these complex topics through a lens that also assesses the environmental sustainability of emerging energy technologies.

Subsurface Energy Systems

This course covers the theory, analysis, and design of deployable and reconfigurable structures. A review of existing and emerging structural systems will cover bar linkages, pantographs (scissor mechanisms), origami structures, and bi/multi-stable units. Conceptual topics will include deployment kinematics, stability, geometric constraints, mechanical behaviors, and fabrication methods. Practical areas discussed in the course will include structural design, material systems, actuation technologies, and fabrication methods. The course will include a student project to explore engineering applications of the structures in architecture, aerospace, robotics, and beyond.

U of M Schedule of Classes

Page 36 of 481

WN 2020 2270 03-05-2020 12:03 22412849
Urban Environmental Systems

Urban Environmental Systems: Project-Based Experiences for Students is a multi-disciplinary, project-based course that focuses on developing solutions to water-based challenges in cities. We include information on both domestic and international cities, and specifically highlight the opportunities and challenges in lower resource settings.

A case study is centered around Addis Ababa, Ethiopia. Each class will be divided between the discussion of content material (first class hour) and group work (second class hour) related to on-going or emerging projects in Ethiopia and elsewhere.

Next Gen Transp 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
<table>
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CoE Robotics Institute

Robotics (ROB)

464 Hands-on Robotics 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students seeking an override must apply for such through the ECE Override System at https://me-web2.engin.umich.edu/ece/override. This includes waitlisted EECS students, as well as non EECS students who are not eligible for the waitlist.

31171 A R LEC 001 MW 12-1230PM 1008 EECS Revzen
31172 P RW LAB 011 MW 1230-2PM 1008 EECS Zhao

530 Mobile Robotics 4.00 ADVISORY

31063 PI LEC 881 MW 5-7PM ARR Ghaffari Jadidi

Section 881 is for special permission/circumstance only. Regular students should register for section 001 ONLY.

Check out last winter term’s course website
http://robots.engin.umich.edu/mobilerobotics/

Advised Prerequisites:
1. One of these courses - AEROSP 550; EECS 442, 445, 453, 467, 501, 502, 504, 524, 545, 551, 560 (CEE 571), 564, 567; IOE 511 (Math 562), 560 (Stats 550) (TO 603), 611 (Math 663); MECHE 564, 567 (ROB 510) (MFG 567), 663, 552 (MFG 552); ROB 501, 550 are strongly recommended; NAVARCH 500, 565 (ROB 555)
2. MATLAB

550 Robotic Sys Lab 4.00 ENFORCED

25037 A R LEC 001 MW 9-10AM 422 CSRB Gaskell
25038 PDRW LAB 011 MW 10-1PM 422 CSRB Gaskell, French, Amine

590 Directed Study 1.00-6.00

599 Special Topics ROB 2.00-3.00 ADVISORY

31845 P W LEC 001 TTH 230-4PM 1500 EECS Gregg IV, Lin

Robot Modeling and Control

Kinematics and dynamics of robots; methods of control; force control; robust and adaptive control; feedback linearization; Lyapunov design methods; passivity and network control; control of multiple and redundant robots.

Upon successful completion of this course, students will:
1. have a basic understanding of the kinematics of robot manipulators and mobile robots.
2. understand the dynamics of Lagrangian mechanical systems and be able to compute the dynamic equations of motion of any robot manipulator.
3. have a basic understanding of nonlinear control methods such as feedback linearization, passivity-based, robust, and adaptive control, and be able to analyze the stability and tracking performance of closed loop systems using Lyapunov theory.
4. be able to model, design, and simulate nonlinear controllers for manipulators and mobile robots.

28853 S LEC 002 TTH 130-230PM 422 CSRB Moore

Bioinspiration

Nature is full of biological organisms that are specialized for specific tasks. By examining the process by which natural selection shapes biological forms, we can learn from nature to inspire technological design. This course will explore biological strategies for swimming, flying, terrestrial locomotion, adhesion, sensing, and construction. This will be an interdisciplinary endeavor with team-based robotic design projects.

33758 P RW LEC 004 MW 430-630PM 2505 GGBL Kuipers, Atkins, Duffy

Ethics for AI and Robotics

Ethics for Robots: The two-credit ROB 599 course will be held together with a four-credit EECS course, and that ROB 599 students will only need to attend 1/2 of the lectures (student’s choice).

33926 P W LEC 005 TTH 12-130PM 151 CHRYS Orosz

Dynamic Cntrl Connected Vehicle

690 Masters Adv Research 3.00 ENFORCED

990 Diss-Precand 1.00-8.00

995 Diss-Cand 8.00 ENFORCED
## Design Science Program

### Design Science (DESCI)

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Des Proc Models
Meeting in Chrysler classroom 151

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Class will meet in SI-North on North Campus; 3rd floor conference room; Room 3244

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U of M Schedule of Classes  Page 42  of  481  WN 2020 2270 03-05-2020 12:03 22412849
**Electrical Engr & 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.

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**215 Intro to Elect Circ 4.00 ADVISORY, ENFORCED**

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS. This class has 2 evening midterm exams. (Department endeavors to admit all students on the 215 waitlist.)

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**215 Intro to Elect Circ 4.00 ADVISORY, ENFORCED**

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**216 Intro to Signals&Syst 4.00 ADVISORY, ENFORCED**

STUDENTS MUST ELECT DISCUSSION, LAB AND LECTURE SECTIONS.

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**230 Engineering EM 4.00 ENFORCED**

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**260 Prog&Data Struct 4.00 ADVISORY, ENFORCED**

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**270 Intro Logic Design 4.00 ENFORCED**

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<td>1940 COOL</td>
<td>Xie</td>
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<td>30174</td>
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<td>DIS</td>
<td>024</td>
<td>M</td>
<td>4-5PM</td>
<td>185 EWRE</td>
<td>Nie</td>
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</tr>
</tbody>
</table>

**375 Intro Embed Sys Des**  
**STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.**  
10675 A R LEC 001 TTH 3-430PM 1311 EECS Dreslinski Jr, Smith  
10677 P RW LAB 011 T 12-3PM 2334 EECS Skillin, Waier  
10679 P RW LAB 012 W 3-6PM 2334 EECS Sibal, Smith  
10680 P RW LAB 013 TH 6-9PM 2334 EECS Sibal, Harith, Skillin  
10676 P RW LAB 014 M 3-6PM 2334 EECS Nath, Smith  

**376 Foundatns Comp Sci**  
**STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS.**  
24420 S R LEC 001 MW 12-130PM 1670 BEYSTER Kamil, Robinson  
23043 S R LEC 002 MW 130-3PM STAMPS Volkovich, Robinson  
33951 S R LEC 003 MW 130-3PM STAMPS Volkovich, Robinson  

**378 Intro Comp Security**  
**STUDENTS MUST ELECT LAB AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.**  
23744 S R LEC 001 MW 9-1030AM 1670 BEYSTER Genkin, Halderman, Ensafi  
23044 S R LEC 002 MW 1030-12PM 1571 GGBL Ensafi, Genkin, Halderman  
24446 S R LEC 003 MW 3-430PM 1571 GGBL Halderman, Ensafi, Genkin  

**396 Special Topics**  
**STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.**  
33422 A R LEC 001 MW 130-230PM 2153 GGBL Stark  

**399 Directed Study**  
**STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB 012.**  
30270 A R LEC 001 TTH 530-7PM 1109 FXB Garcia-Ramirez, Siddiqui,  

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Software Defined Radio  
"4 Credit Hours for Lec 1 and Lab 11 or 12", Prerequisites for Lec 1: EECS 216 or permission of instructor  

**398-11 will meet in EECS 4343. STUDENTS ARE AUTO-ENROLLED IN 398-001 LECTURE WHEN THEY ELECT A LAB 011.**  
**398-12 will meet in EECS 4343. STUDENTS ARE AUTO-ENROLLED IN 398-001 LECTURE WHEN THEY ELECT A LAB 012.**  

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**402 Prog for Sci&Eng**  
**STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.**  
20016 A R LEC 001 MF 4-530PM 1250 USB Morgan  
27868 P RW DIS 011 T 1-2PM 1024 DANA Dixon  
27867 P RW DIS 012 TH 4-5PM 1024 DANA Wolfram  

**403 Fnd Data Str Alg**  
**STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.**  
281-005, CSE students (Undergraduate or Graduate) are not eligible for this course. Enrollment in EECS 403-a and 403-n will be by override only, to request an override please waitlist for the course.
Students are auto-enrolled in lecture when they elect a lab.

Lab times to be determined during the semester.
<table>
<thead>
<tr>
<th>CAT#</th>
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<td>ADVISORY, ENFORCED</td>
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<tr>
<td>10697</td>
<td>ADRW LEC 001 W</td>
<td>3-5PM</td>
<td>133 CHRYS</td>
<td>Belmont</td>
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<tr>
<td>10698</td>
<td>PDRWLAB 002 TTH</td>
<td>9-12PM</td>
<td>1105 LBME</td>
<td>Belmont, Shinde</td>
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<tr>
<td>17804</td>
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<td>1230-330PM</td>
<td>1105 LBME</td>
<td>Belmont, Najarian</td>
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<tr>
<td>30651</td>
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<td>4-7PM</td>
<td>1220 LBME</td>
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460 Con Sys Anlys&Des

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

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461 Embedded Control

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students seeking an override must apply for such through the ECE Override System at https://deptapps.engin.umich.edu/ece/override. This includes waitlisted EECS students, as well as non EECS students who are not eligible for the waitlist.

<table>
<thead>
<tr>
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<td>21358</td>
<td>P RW LAB 011 M</td>
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<td>17191</td>
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<td>11-2PM</td>
<td>4342 EECS</td>
<td>Sailey</td>
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<tr>
<td>17088</td>
<td>P RW LAB 013 T</td>
<td>3-6PM</td>
<td>4342 EECS</td>
<td>Menge</td>
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<tr>
<td>17090</td>
<td>P RW LAB 014 W</td>
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<td>4342 EECS</td>
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<td>19567</td>
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<td>4342 EECS</td>
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<td>25942</td>
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<td>4342 EECS</td>
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<td>4342 EECS</td>
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</table>

464 Hands-on Robotics

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students seeking an override must apply for such through the ECE Override System at https://deptapps.engin.umich.edu/ece/override. This includes waitlisted EECS students, as well as non EECS students who are not eligible for the waitlist.

<table>
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<td>27950</td>
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</table>

467 Autonomous Robotics

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

<table>
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<td>22580</td>
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<td>1-2PM</td>
<td>2334 EECS</td>
<td>Pavlasek, Chen</td>
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<td>24499</td>
<td>P RW LAB 012 F</td>
<td>12-1PM</td>
<td>2334 EECS</td>
<td>Chen, Pavlasek</td>
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470 Comp Architec

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students are auto-enrolled in lecture when they elect a discussion.

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<td>17072</td>
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<td>Miles, Nwabuez</td>
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<td>14128</td>
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<td>4-6PM</td>
<td>1620 BEYSTER</td>
<td>Liu, Miles</td>
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475 Intro Cryptography

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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476 Data Mining

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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<td>33873</td>
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<td>2505 GGBL</td>
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478 Logicckt Syn&Opt

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

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<td>Hayes</td>
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<tr>
<td>24066</td>
<td>P RW DIS 011 F</td>
<td>1130-1230PM</td>
<td>2150 DOW</td>
<td>Baker</td>
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480 Soc Comput Sys

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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<td>1130-1230PM</td>
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481 Software Engin

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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<td>27710</td>
<td>S R LEC 001 MW</td>
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<td>Kaprutos, Wang, Hao</td>
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482 Intro Oper System

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

<table>
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STUDENTS MUST ELECT LECTURES SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.
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<td>15891</td>
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<td>22715</td>
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<tr>
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<td>23742</td>
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<td>1030-1130AM</td>
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**483 Compiler Constr** 4.00 ENFORCED

Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

<table>
<thead>
<tr>
<th>25411</th>
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<td>1571 GGBL</td>
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**484 Database Mgt Syst** 4.00 ENFORCED

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

<table>
<thead>
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<td>1690 BEYSTER</td>
<td>An</td>
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<tr>
<td>44564</td>
<td>P RW DIS 018 F</td>
<td>230-330PM</td>
<td>1014 DOW</td>
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</table>

**485 Web Systems** 4.00 ENFORCED

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

<table>
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<td>44566</td>
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**490 Prog Lang** 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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**492 Intro Art Intell** 4.00 ENFORCED

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Undergrads only. Undergrads only. Undergrads in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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**493 User Interface Dev** 4.00 ENFORCED

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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U of M Schedule of Classes Page 50 of 481 WN 2020 2270 03-05-2020 12:03 22412849
Students in non-EECS majors may contact the CSE Undergraduate Advising Office on or after Monday, December 13, 2019 for assistance.

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Students are auto-enrolled in lecture when they elect a discussion. Students seeking an override must apply for such through the ECE Override System at https://deptapps.engin.umich.edu/ece/override. This includes waitlisted EECS students, as well as non EECS students who are not eligible for the waitlist.

539 Lasers
18630 P W LEC 001 MW 1030-12PM 1012 EECS Galvanauskas

545 Machine Learn
32475 P W LEC 001 M 530-7PM 1005 EECS Guo

546 Ultrafast Optics
32473 A R LEC 001 MWF 130-230PM 1005 EECS Norris

557 Communication Netwk
16574 P W LEC 001 MW 1030-12PM 1006 DOW Ying

569 Prod Syst Eng
32474 P W LEC 001 TTH 430-6PM 151 CHRRYS

Section 881 is for special permission/circumstance only. Regular students should register for section 001 ONLY.

Advised Prerequisites:
1. One of these courses - AEROSP 550; EECS 442, 445, 453, 467, 501, 502, 504, 542, 545, 551, 560 (CEE 571), 564, 567; IOE 511 (Math 562), 560 (Stats 550) (TO 603), 611 (Math 663); MECHE 564, 567 (ROB 535) (MFG 552); NAVARCH 500, 565 (ROB 535)

2. MATLAB

586 Algorithms
35888 P W LEC 001 TTH 430-6PM ARR

Students are auto-enrolled in lecture when they elect a discussion.
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Enrollment in EECS 590 will be by override only, to request an override please waitlist for the course.

Enrollment in EECS 592 will be by override only, to request an override please waitlist for the course.

Enrollment in EECS 598-7 will be by override only, to request an override please waitlist for the course.

Enrollment in EECS 598-8 will be by override only, to request an override please waitlist for the course.

Enrollment in EECS 598-9 will be by override only, to request an override please waitlist for the course.

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Enrollment in EECS 598-12 will be by override only, to request an override please waitlist for the course.

Enrollment in EECS 598-13 will be by override only, to request an override please waitlist for the course.
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STUDENTS ELECTING DIS (422-428) WILL BE AUTO-ENROLLED IN LEC 420 AND THE CORRESPONDING LAB. Ex. elect Dis 422, auto-enrolled in Lab 421.

31460 A   LAB 421 M 1230-230PM 1008 EECS Novilla
31459 P   DIS 422 F 1030-1130AM 136 EWRE Bowden
31461 A   LAB 423 T 1230-230PM 1008 EECS Pavlov
31466 P   DIS 428 F 1230-130PM 136 EWRE Pavlov

STUDENTS ELECTING DIS (452-456) WILL BE AUTO-ENROLLED IN LEC 450 AND THE CORRESPONDING LAB. Ex. elect Dis 452, auto-enrolled in Lab 451.

10718 ADRW LEC 450 TTH 12-130PM 1012 FXB De Roo, Grimble
10719 ADRW LAB 451 TH 230-430PM ARR Rastogi

STUDENTS ELECTING DIS (552-554) WILL BE AUTO-ENROLLED IN LEC 550 AND THE CORRESPONDING LAB. Ex. elect Dis 552, auto-enrolled in Lab 551.

25538 A   LAB 551 F 930-1130AM ARR McManus
25539 P   DIS 552 TH 1230-230PM 1005 EECS Bowden
26924 A   LAB 555 F 230-430PM ARR McManus

STUDENTS ELECTING DIS (602-606) WILL BE AUTO-ENROLLED IN LEC 600 AND THE CORRESPONDING LAB. Ex. elect Dis 602, auto-enrolled in Lab 601.

10721 ADR LEC 600 MW 12-130PM 133 CHRYS Alford, Fowler

STUDENTS ELECTING DIS (802-804) WILL BE AUTO-ENROLLED IN LEC 800 AND THE CORRESPONDING LAB. Ex. elect Dis 802, auto-enrolled in Lab 801.

22986 AD  LEC 800 MW 12-130PM 1005 DOW Bozer, Vigiletti

Process Throughput Optimize
STUDENTS ELECTING DIS (802-804) WILL BE AUTO-ENROLLED IN LEC 800 AND THE CORRESPONDING LAB. Ex. elect Dis 802, auto-enrolled in Lab 801.

22987 AD  LEC 801 T 10-1130AM 224 GFL Vigo Camargo
22990 PD  DIS 802 W 1030-1130AM 136 EWRE Villa
22991 AD  LAB 803 T 130-3PM 1003 EECS Vigo Camargo
22992 PD  DIS 804 W 1130-1230PM 107 GFL Villa

Electron & Atmos Space Measure
STUDENTS ELECTING DIS (952-956) WILL BE AUTO-ENROLLED IN LEC 950, AND THE CORRESPONDING LAB. Ex. elect Dis 952, auto-enrolled in Lab 951.

14210 A R LEC 950 TTH 230-4PM 1200 EECS Ridley, Hogg Jr

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</table>
Entrepreneurship (ENTR)

33092 Spec Topics Entr 2.00-3.00
Bus Entr in Thought & Action
Sophomore standing and above. Non BBA Students. This course is designed to introduce non-business students to core business concepts and to learn how to apply these concepts through the lens of an entrepreneur. This course is designed for students in all schools and colleges, with the expectation that students have an understanding of basic algebra.

25279 Intro to Entrepreneurial Des
* Students from ALL schools and colleges may take this course.
* More information about this and other ENTR courses can be found at cfe.umich.edu/courses

24585 Hardware/Coding
* Students from ALL schools and colleges may take this course.
* More information about this and other ENTR courses can be found at cfe.umich.edu/courses

24586 3D Printing/Prototyping
* Students from ALL schools and colleges may take this course.
* More information about this and other ENTR courses can be found at cfe.umich.edu/courses

24591 Virtual Reality
**The class meets in ATL 1 and ATL 2 on the third floor of the Duderstadt Center, at the end of the library next to the Center for Entrepreneurship
* Students from ALL schools and colleges may take this course.
* More information about this and other ENTR courses can be found at cfe.umich.edu/courses

24758 Digital Product Design
* Students from ALL schools and colleges may take this course.
* More information about this 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 your academic advisor(s).

* YOU CANNOT DIRECTLY ENROLL IN THIS LECTURE. You must pick a lab first (ENTR 390.006 - 010).

* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to your academic advisor(s).

* YOU CANNOT DIRECTLY ENROLL IN THIS LECTURE. You must pick a lab first (ENTR 390.006 - 010).
***This class is for members of TechLab at City program, who will be granted individual permissions to register. It is a required component of a fellowship program. It is by Application ONLY.

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

* More information about this 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 your academic advisor(s).

407 Entrepreneurship Hr 1.00
19899 P W SEM 001 F 1230-130PM STAMPS Fay
* Students from ALL schools and colleges may take this course.

* This class may be taken up to 3 times for pass/fail credit.

* More information about this 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 your academic advisor(s).

408 Patent Law 1.00
22550 P RW LEC 001 T 6-8PM 1024 FXB Fidler
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

409 Intr Venture Capital 1.00
19898 P W LEC 001 THF 10-12PM ARR Fortino
***** Class will meet at TechArb, just off Central Campus, at 500 E. Washington LL#10/505 E. Liberty LL#10 (building entrances span the block).

** This is a short course during the first 7 weeks of the semester.

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

* More information about this 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 your academic advisor(s).

410 Finding Your Venture 2.00
25269 P RW LEC 001 TH 3-5PM 1008 FXB Hayden, McFall
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

411 Entr Practicum 3.00 ADVISORY
21242 P RW LEC 001 T 4-6PM A859 CHEM-TBLC Hennessy
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

412 Adv Entr Practicum 3.00
25171 P W LEC 001 T 6-8PM A859 CHEM-TBLC Hennessy
*** As this course is by Instructor Consent, you must apply here:
http://myumi.ch/Jy4j7
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

413 Entr Marketing 2.00
- 25271 P RW LEC 001 W 3-5PM 1680 IOE Dacko
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

417 Entr Hr Dis Session 1.00 ADVISORY
- 20293 P W DIS 001 F 230-330PM 1680 IOE Gordon
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

490 Spec Topics Entr 2.00-3.00
- 24588 P W LEC 012 M 6-9PM 1690 BEYSTER Leppek
Urban Entrepreneurship
* Students from ALL schools and colleges may take this course.

* More information about this 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 your academic advisor(s).

500 Intro to Innovation 3.00 ENFORCED
- 25273 P RW LEC 001 T 830-1130AM 1690 BEYSTER Crumm
* Students from ALL schools and colleges may take this course.

* This course is the required course for the Certificate in Innovation & Entrepreneurship. Learn more at cfe.umich.edu/certificate

* More information about this 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 your academic advisor(s).

510 Compensation 3.00 ENFORCED
Fund and Ownership

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

* More information about this 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 academic advisor(s).

Interpersonal Skills

3.00 ENFORCED

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

* More information about this 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 academic advisor(s).

Proj Mgmt Consulting

3.00

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

* More information about this 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 academic advisor(s).

Spec Topics Entr

1.00-3.00

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

* More information about this 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 academic advisor(s).

Entrep Lease 150

185 CHRS S 160

***This class is for members of Entrepreneurial Leadership Program (ELP), who will be granted individual
permissions to register. It is a required component of a fellowship program. It is by Application ONLY.

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

* More information about this 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 academic advisor(s).

Creative Process

4.00

In this course sponsored by ArtsEngine, students explore the creative process through a structured sequence of
exercises in four studio modules: sound, motion, visual images/objects, and verbal/symbolic language. Faculty from
Art & Design (Andrew Thompson); Music, Theatre & Dance (Amy Chavasse); Architecture (Gregory Saldana); and
Engineering (Jeremy Bond) introduce a variety of creative strategies for generating problem solving ideas through
hands-on projects. Weekly colloquia (Stephen Rush), discussions, and readings supplement projects. Grading is based upon attendance, class participation, a journal, four mini-projects, evidence of intellectual and creative process development, and a final culminating project. This course is appropriate for UM undergraduate students at all levels and in all disciplines. It is a fast paced, information-rich educational experience, offering insights that will make creativity and innovation an integral part of life and work.

STUDENTS ELECTING LAB (102-105) WILL BE AUTO-ENROLLED IN LEC 100 & DIS 101 (meditation session, which is optional).

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ENROLLMENT IN LAB SECTION AUTO-ENROLLS STUDENTS IN LECTURE

STUDENTS ARE CONTACTED BY INSTRUCTOR ABOUT CLASS LOCATION

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The Force of Things
This section is A Transdisciplinary Exploration of Architecture and Sound, and will meet on N. campus; location TBD
### Industrial-Operations Engr Dep

**Industrial And Operations Engineering (IOE)**

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**Students are auto-enrolled in lecture when they elect a lab.**

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U of M Schedule of Classes Page 70 of 481
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U of M Schedule of Classes Page 72 of 481 WN 2020 2270 03-05-2020 12:03 22412849
# Program In Manufacturing

## Manufacturing (MFG)

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### Materials Science & Engineering

**Materials Science Engineering (MATSCIE)**

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**Course Details**

**Materials Science Engineering (MATSCIE)**

- **Intro Mat & Man (220)**
  - Structure, properties, and processing relationships in engineering materials. This section is particularly well-suited for Aerospace and NERS students (minor added emphasis on composites and radiation effects on materials).
- **Physics of Matls (242)**
- **Prin Engr Matl (250)**
- **Materials Lab II (365)**
- **Ceramic Materials (440)**
- **Matts Engr Design (480)**
- **Design Problems (485)**
- **Research Problems (490)**
- **Phys Polymers (512)**
- **Comp Matris (514)**
- **Adv Mech Behavior (520)**
- **Molecular Sim (535)**
- **Foundations Nano II (559)**
- **Failure Analys (577)**
- **MSE Special Topics (593)**

**Course Engagement**

- **Engagement in Research Process -** a course aimed at directing incoming students to develop a coherent idea into a more completed product. The product could take the form of a proposal, white paper, or review paper of interest to each student. Students will be encouraged to bring individual ideas worthy of further development or as part of their engagement in their individual research groups.

**Surface and Interfacial Engineering -** This course will present and analyze the surfaces of a wide range of biological species, such as lotus leaves, rose petals, water striders, arctic spring tails, sharks, desert beetles, and pitcher plant leaves. We will understand the unique surface functionality associated with each of these biological species by examining the roles of surface composition and surface texture. Subsequently, we will discuss how this fundamental understanding can be used to engineer bio-inspired surfaces of the future for a range of applications such as stain resistant fabrics, micro-robots, anti-fingerprint displays, drag reduction for ships,
Cancer Bioengineering
Cancer refers to a collection of heterogeneous but related diseases recognized primarily by uncontrolled cellular proliferation, invasion, and spread into surrounding tissues. This course is designed to be an introduction to cancer biology from an engineering and systems perspective. It will provide a basic understanding of cancer biology including (but not limited to) cancer genetics, signal transduction, metabolism, angiogenesis, tumor microenvironment and the metastatic cascade, and will discuss how new technologies and engineering approaches improve our understanding of the tumorigenesis process and our ability to diagnose or treat cancer. The course is designed primarily for engineering graduate students and senior undergraduate students. It will cover both basic concepts and engineering approaches as applied to cancer biology. This is a highly interdisciplinary field where knowledge from various disciplines needs to be presented and integrated. It will be divided into three sections: (1) biological concepts and cancer biology, (2) engineering and systems approaches to the study of these concepts, and (3) engineering solutions to cancer diagnostics and treatment.

Fundamentals of Quantum Materials
This class will serve as an introduction to recent materials and topics of interest in the field. The class focuses on synthesis and characterization of quantum materials as well as the control and manipulation of quantum materials for applications. Topical systems are those with electronic correlations and systems with topological order, particularly systems with ferroic order and spin textures. The course will focus on magnetism, frustration, non-trivial electronic and magnetic structures, multiferroics, phase transitions, metal-insulator transitions, spin-orbit coupling and Hall effects, and interfaces. The course will also impart practical knowledge through the discussion of: 1) synthesis methods for the growth of bulk materials, thin film materials, controlled interfaces, and nanostructures and 2) characterization methodologies such as electron microscopy, optical spectroscopy, charge and spin transport.

Data-Driven Materials Design and Genomics
The Materials Genome Initiative (MGI) is an ongoing U.S. initiative to discover, manufacture, and deploy advanced materials twice as fast, at a fraction of the cost. Many MGI efforts are enabled by large-scale materials informatics employing methods such as high-throughput computing, data-driven materials optimization, and knowledge discovery in materials databases. In this course, students will learn how to use Python to access big-data from existing materials databases, and how to design and execute a data-driven research project in MSE. State-of-the-art methods in statistical analysis, supervised and unsupervised machine-learning, and data visualization will be covered, with computational labs to teach proficiency in these techniques. We will review examples of MGI efforts in the design of novel lithium ion batteries and structural alloys. A capstone project will provide an opportunity for students to design and propose new MGI initiatives.

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# Mech Eng & Applied Mech Dept

## Mechanical Engineering (MECHENG)

### MECHENG 211 Intro to Solid Mech 4.00 ENFORCED

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### MECHENG 320 Fluid Mech I 3.00 ENFORCED

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### MECHENG 350 Des & Mfg II 4.00 ENFORCED

Enrollment in a lab will auto-enroll you in the lecture.

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| 382     | Mech Behav Matls 4.00 ENFORCED

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Prerequisites are enforced and must be met to enroll in this class.

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**U of M Schedule of Classes**

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STUDENTS MUST ALSO SUBMIT A PROPOSAL AND REPORT ONLINE. ADDITIONAL INFORMATION IS AVAILABLE AT THE FOLLOWING LINK:
https://deptapps.engin.umich.edu/rise/student/newproposal?dept=222500&type=ME%20590

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502 Meth Diff Eq Mech
512 Theory Elast
521 Adv Fluid Mech II
524 Adv Eng Acoustics
530 Adv Heat Transfer
538 Adv IC Engines
555 Design Optim
561 Des Dig Cont Sys
564 Linear Systems Thry
574 Nano/Micr Struc Evol
590 Res Sel M E Topics
599 Spec Topics in M E
641 Adv Vib Structures
695 Master Thesis Res
990 Diss-Precand
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# Naval Architecture And Marine Engineering (NAVARCH)

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Advised Prerequisites:
1. One of these courses - AEROSP 550; EECS 442, 445, 453, 467, 501, 502, 504, 542, 545, 551, 560 (CEE 571), 564, 567; IOE 511 (Math 562), 560 (Stats 550) (TO 603), 611 (Math 663); MECHENG 564, 567 (ROB 510) (MFG 567), 663, 552 (MFG 552); ROB 501, 550 are strongly recommended; NAVARCH 500, 565 (ROB 535)
2. MATLAB

Check out last winter term's course website
http://robots.engin.umich.edu/mobilerobotics/

Advised Prerequisites:
1. One of these courses - AEROSP 550; EECS 442, 445, 453, 467, 501, 502, 504, 542, 545, 551, 560 (CEE 571), 564, 567; IOE 511 (Math 562), 560 (Stats 550) (TO 603), 611 (Math 663); MECHENG 564, 567 (ROB 510) (MFG 567), 663, 552 (MFG 552); ROB 501, 550 are strongly recommended; NAVARCH 500, 565 (ROB 535)
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The scheduled lab times may be modified slightly to best meet the needs of the students and the GSI; the lab times will be finalized during the first class meeting (lecture).

Lab will be in 1958 Cooley:
- 10869 P W LAB 002 T 1-4PM ARR McBride, Yang
- Lab times may be modified slightly to best meet the needs of the students and the GSI; the lab times will be finalized during the first class meeting (lecture).

Lab will be in 1958 Cooley:
- 10870 P W LAB 003 TH 1-4PM ARR McBride, Yang
- Lab times may be modified slightly to best meet the needs of the students and the GSI; the lab times will be finalized during the first class meeting (lecture).

Lab will be in 1958 Cooley:
- 27660 P W LAB 004 W 1-4PM ARR McBride, Yang
- Lab times may be modified slightly to best meet the needs of the students and the GSI; the lab times will be finalized during the first class meeting (lecture).

Lab will be in 1958 Cooley:
- 28083 P W LAB 005 F 1-4PM ARR McBride, Yang
- Lab times may be modified slightly to best meet the needs of the students and the GSI; the lab times will be finalized during the first class meeting (lecture).
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The lab location for NERS 586 is in 1962 Cooley.

The student will learn the fundamentals and state-of-the-art techniques for low-noise amplification and signal processing. A project will be assigned where the student will design a low-noise circuit from concept to transistor-level. Open to students in all levels in NERS, EECS, and Physics. Prior coursework in Analog circuits is recommended.

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Space Nuclear Energy & Propulsion

Machine Learning for Science

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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 1.00

17819 P W LEC 001 W 130-230PM 1003 EECs Lewis
17822 P W LEC 002 M 930-1030AM 1005 EECs Pavlov
17821 P W LEC 004 T 130-230PM 185 EWRE Fishstrom
21382 P W LEC 005 M 230-330PM 107 GFL Royston
19250 P W LEC 007 F 1230-130PM 1003 EECs Royston
21793 P W LEC 008 W 1130-1230PM 185 EWRE Lewis
21794 P W LEC 009 M 1130-1230PM 107 GFL Grimbie
22490 P W LEC 010 F 1030-1130AM 2147 GGBL McCaffery
22492 P W LEC 012 M 930-1030AM 185 EWRE Snyder, Hildinger
25534 P W LEC 013 M 1230-130PM 104 EWRE Pavlov
30301 P W LEC 014 M 1030-1130AM 2166 DOW Snyder, Hildinger
21791 P W LEC 016 F 1030-1130AM 2238 CSRB Himsel-Burcon

380 Tech Comm in IOE 2.00 ADVISORY

17463 P RW LEC 001 TTH 1030-1130AM 107 GFL Wisniewski
17824 P RW LEC 002 TTH 1230-130PM 107 GFL Lind
22305 P RW LEC 004 TTH 1230-130PM 1003 EECs Lind

This class is for IOE students only. Please do not enroll in this class if you are not a declared IOE student.

496 Adv TchCom for EE/CE 2.00 ENFORCED

16616 P R LEC 001 MW 930-1030AM 1008 EECs Alfano
36794 P R LEC 005 TTH 1130-1230PM 107 GFL McCaffery
22490 P RW LEC 007 MW 1130-1230PM 104 EWRE Kumpf
22497 P R LEC 008 M 1230-230PM 136 EWRE Casper
22498 P RW LEC 009 TTH 230-330PM 3150 DOW Kumpf
30300 P R LEC 010 T 1030-1230PM 136 EWRE Casper

497 Adv Tch Com for CS 2.00 ENFORCED

22499 P RW LEC 002 MW 930-1030AM 1003 EECs Hogg Jr
24641 P RW LEC 003 MW 1030-1130AM 1690 BEYSTER Alfano
26238 P RW LEC 005 TTH 1030-1130AM 3427 EECs Hogg Jr
27924 P RW LEC 006 MW 230-330PM 3150 DOW Montgomery
27910 P RW LEC 007 TTH 1130-1230PM 107 GFL Sheffield
29990 P RW LEC 008 MW 1230-130PM 185 EWRE Alfano
30301 P RW LEC 009 MW 930-1030AM 1008 EECs Alfano
30302 P RW LEC 010 TTH 1230-130PM 2166 DOW Hogg Jr
33816 P RW LEC 012 TTH 930-1030AM 1018 DOW Vigiletti
33908 P RW LEC 013 MW 330-430PM 1008 EECs Vigiletti
34196 P RW LEC 014 TTH 1230-130PM 3150 DOW Hogg Jr
34200 P RW LEC 015 TTH 230-330PM 2166 DOW Vigiletti

499 Scientific&Tech Comm 1.00-4.00

575 Directed Study 1.00-4.00 ADVISORY

590 Intern in Tech Comm 1.00-4.00 ADVISORY

610 Dissertatn Writing 3.00 ADVISORY

675 Directed Study 1.00-4.00 ADVISORY
# Environment and Sustainability

## Program in the Environment

### Environment (ENVIRON)

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- **102 Extreme Weather**: 10-11 AM, AUD C AH, Samson
- **105 Changing Atmos**: 10-1130 AM, 1528 NUB, Flanner
- **111 Climate & Sustain**: 9-11 AM, 2302 SEB, Arnaboldi, Wiley, Halperin
- **118 Intro Geology Lab**: 2-4 PM, 2512 NUB
- **119 Intro Geology**: 11-12 PM, AUD C AH, Simon
- **120 Geol National Parks**: 1130-1 PM, 1528 NUB, Gleason
- **131 Earth Chemistry**: 10-1130 AM, 2520 NUB, Robbins
- **139 FYS Environment**: 1-230 PM, 3556 DANA, Duvall
- **201 Ecological Issues**: 1130-1 PM, 1040 DANA, Benedict

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

- **18297** P  W LAB 001 M 2-4PM 2512 NUB
- **18298** P  W LAB 002 M 4-6PM 2512 NUB
- **18300** P  W LAB 005 TH 12-2PM 2512 NUB
- **19315** P  W LAB 006 TH 2-4PM 2512 NUB

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

- **18289** P  W DIS 010 M 3-4PM 2504 NUB
- **18290** P  W DIS 011 TH 3-4PM 2504 NUB
- **18291** P  W DIS 012 M 4-5PM 2504 NUB
- **18292** P  W DIS 013 T 12-1PM 2504 NUB
- **18293** P  W DIS 014 TH 4-5PM 2504 NUB
- **18294** P  W DIS 015 TH 12-1PM 2504 NUB
- **18295** P  W DIS 016 F 10-11AM 2504 NUB

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

- **18288** A  LEC 001 MWF 11-12PM AUD C AH, Simon
- **28774** A  LEC 001 MW 1130-1PM 1528 NUB, Gleason

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

- **17367** A  LEC 001 TTH 1130-1PM 1040 DANA, Benedict
- **28200** P  W DIS 002 M 3-4PM 2024 DANA, Benedict, Stadler
- **17368** P  W DIS 003 T 4-5PM 4437 MH, Benedict, Freed
- **17369** P  W DIS 004 M 3-4PM 1046 DANA, Benedict, Stadler
- **17370** P  W DIS 007 M 4-5PM 1046 DANA, Benedict, Vogel
- **17412** P  W DIS 008 W 4-5PM 3556 DANA, Benedict, Freed
- **17413** P  W DIS 009 W 3-4PM 3556 DANA, Benedict, Freed

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This class is closed to seniors until December 10.

To enroll in the Intro Oceanography Lab, enroll in any section of EARTH 222. Students are strongly encouraged to enroll in both EARTH 222/ENVIRON 232 and EARTH 223/ENVIRON 233.

| 233  | Intro Ocean Lab           | 1.00|        |         |
| 17790| P W LAB 002 T 2-4PM      |     |        |         |
| 17791| P W LAB 003 T 4-6PM      |     |        |         |
| 17792| P W LAB 004 TH 2-4PM     |     |        |         |
| 17793| P W LAB 005 TH 4-6PM     |     |        |         |

This class is closed to seniors until December 10. Students who register for EARTH 222/ENVIRON 233 must also be enrolled in EARTH 223/ENVIRON 232.

| 235  | Envir Econ & Policy      | 3.00|        |         |
| 27152| P W LEC 001 TTH 1-230PM  |     |        |         |

This class is closed to seniors until December 10. Students who register for EARTH 222/ENVIRON 233 must also be enrolled in EARTH 223/ENVIRON 232.

| 244  | Topic Culture & Envi     | 3.00|        |         |
| 33746| P LEC 002 TTH 10-1130AM  |     |        |         |

This class is closed to seniors until December 10. Students who register for EARTH 222/ENVIRON 233 must also be enrolled in EARTH 223/ENVIRON 232.

| 245  | Interdis Env Topics      | 2.00|        |         |
| 33877| PD LEC 001 MTWTHF 1-1AM  |     |        |         |

This course represents the ENVIRON 111 Study Abroad Extension in Italy. The dates of this course are July 3 - 24, 2020.

| 250  | Energy&Climate Chng       | 3.00|        |         |
| 32177| P W LEC 001 MW 10-1120AM |     |        |         |

| 258  | Food & Drink of Asia      | 4.00|        |         |
| 33691| A LEC 001 MW 230-4PM     |     |        | Brown |
| 33692| P W DIS 002 F 9-10AM    |     |        | Chung |
| 33693| P W DIS 003 F 10-11AM   |     |        | Chung |
| 33694| P W DIS 004 F 12-1PM    |     |        | Xu |
| 33695| P W DIS 005 F 1-2PM     |     |        | Xu |
| 33696| P W DIS 006 F 2-3PM     |     |        | Xu |
| 33697| P W DIS 007 F 10-11AM   |     |        | Xu |
| 33698| P W DIS 008 F 11-12PM   |     |        | Xu |
| 36811| P W DIS 009 F 2-3PM     |     |        | Xu |

| 262  | Plants and People         | 3.00|        |         |
| 32371| P W LEC 001 MW 10-1130AM |     |        |         |

| 261  | General Ecology           | 3.00| ADVISORY|         |
| 17696| A LEC 001 TTH 9-10AM     |     |        | Hunter |
| 17697| P W DIS 002 M 1-3PM      |     |        | Milton |
| 17698| P W DIS 003 M 3-5PM      |     |        | Milton |
| 17699| P W DIS 004 T 10-12PM    |     |        | Munsterman |
| 17779| P W DIS 006 M 10-12PM    |     |        | Munsterman |

| 300  | Spec Prob&Res-Ugrad       | 1.00-4.00|        |         |
| 302  | Envr Soc Sci Topics       | 3.00|        |         |
| 32418| P W LEC 002 MW 1-230PM   |     |        | Mills |
| 304  | Culture&Envir Topics      | 3.00|        |         |
| 32554| P LEC 001 MW 230-4PM     |     |        | Ewing |

| 305  | Interdis Env Topics       | 3.00|        |         |
| 24306| P W LAB 001 TTH 2-415PM  |     |        | Trumpey |

<p>| 310  | Env Chem&amp;Dis              | 3.00| ADVISORY|         |
| 32626| P LEC 002 TTH 10-1130AM  |     |        | Campbell-Arvai |</p>
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U of M Schedule of Classes
# School for Environment and Sustainability

## Environment and Sustainability (EAS)

### 409 Ecol of Fishes
- **Class #:** 41699
- **Code:** P
- **CMP:** LEC 001
- **Sec:** MWF
- **Time:** 10-11AM
- **Location:** 1024 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Alofs, Lugten

### 475 Environ Law
- **Class #:** 18096
- **Code:** A
- **CMP:** W LEC 001
- **Sec:** MW
- **Time:** 1130-1PM
- **Location:** 1024 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Hall, Nelson

### 476 Ecosystem Ecology
- **Class #:** 22659
- **Code:** P
- **CMP:** LEC 001
- **Sec:** TH 10-1130AM
- **Location:** 1018 NUB
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Zak, Allgeier

### 501 Grad Experimental
- **Class #:** 31643
- **Code:** P
- **CMP:** W SEM 009
- **Sec:** TTH 830-10AM
- **Location:** 1006 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Campbell-Arvai

### Aquatic Entomology
- **Class #:** 27904
- **Code:** P
- **CMP:** W SEM 022
- **Sec:** TTH 110-1130AM
- **Location:** 2520 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Riseng

### Climate Econ & Policy
- **Class #:** 29141
- **Code:** P
- **CMP:** W SEM 025
- **Sec:** TTH 2-4PM
- **Location:** 1046 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Alofs, Read, Seelbach

### Sci & Mgmt of the Great Lakes
- **Class #:** 26993
- **Code:** P
- **CMP:** W SEM 055
- **Sec:** F
- **Time:** 10-11AM
- **Location:** 2520 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Taylor, Blondell

### Choice Arch for Sustain
- **Class #:** 33112
- **Code:** P
- **CMP:** W SEM 017
- **Sec:** M 1-230PM
- **Location:** 2520 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Riseng

### Frontiers in Env Just
- **Class #:** 31831
- **Code:** P
- **CMP:** W SEM 117
- **Sec:** M 4-7PM
- **Location:** 2520 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Agrawal

### Sus, Devel, & Prog Eval
- **Class #:** 36996
- **Code:** A
- **CMP:** LEC 215
- **Sec:** TH 12-1PM
- **Location:** 3325 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Van Berkel

### Intro to Geoviz of Env&Soc
- **Class #:** 36998
- **Code:** P
- **CMP:** W LAB 217
- **Sec:** F
- **Time:** 12-2PM
- **Location:** 3325 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Van Berkel, Gill

### Intro to Geoviz Lab
- **Class #:** 36999
- **Code:** A
- **CMP:** LEC 218
- **Sec:** TH 12-1PM
- **Location:** 3325 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Van Berkel

### Advanced Geovis Lab
- **Class #:** 37000
- **Code:** P
- **CMP:** W LAB 219
- **Sec:** TH
- **Time:** 4-6PM
- **Location:** 3325 DANA
- **CR:** 1.00
- **Prereq:** ADVISORY
- **Instructor:** Van Berkel, Gill

### Sus Sites&Hist Prec
- **Class #:** 28638
- **Code:** P
- **CMP:** LEC 001
- **Sec:** TH 9-1130AM
- **Location:** 3552 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Jones

### Int Res in Con Ecol
- **Class #:** 31919
- **Code:** A
- **CMP:** W LEC 001
- **Sec:** MF 3-4PM
- **Location:** 1040 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Alofs

### Conservation Biology
- **Class #:** 26954
- **Code:** P
- **CMP:** W LEC 001
- **Sec:** TTH 110-1130PM
- **Location:** 2024 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Cardinale, Madden

### Wildlife Ecol & Mgmt
- **Class #:** 31645
- **Code:** A
- **CMP:** W LEC 001
- **Sec:** TTH 12-1PM
- **Location:** 1046 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Foutopoulos, Carlbeg

### Principles of GIS
- **Class #:** 17396
- **Code:** A
- **CMP:** W RW LAB 002
- **Sec:** T 3-6PM
- **Location:** 3325 DANA
- **CR:** 4.00
- **Prereq:** ADVISORY
- **Instructor:** Bergen, Cordero-Sancho

### Landscape Ecology
- **Class #:** 28504
- **Code:** P
- **CMP:** W LEC 001
- **Sec:** TH 230-4PM
- **Location:** 1028 DANA
- **CR:** 2.00
- **Prereq:** ADVISORY
- **Instructor:** Currie

### Remote Sensing
- **Class #:** 19954
- **Code:** A
- **CMP:** W RW LAB 001
- **Sec:** MW 1-230PM
- **Location:** 2024 DANA
- **CR:** 4.00
- **Prereq:** ADVISORY
- **Instructor:** Bergen, Barnett

### App Ecosys Modeling
- **Class #:** 28505
- **Code:** P
- **CMP:** W LEC 001
- **Sec:** TH 230-4PM
- **Location:** 1028 DANA
- **CR:** 2.00
- **Prereq:** ADVISORY
- **Instructor:** Currie

### Sys Devel&Enterprise
- **Class #:** 29049
- **Code:** P
- **CMP:** W REC 001
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- **Location:** 2024 DANA
- **CR:** 3.00
- **Prereq:** ADVISORY
- **Instructor:** Xu, Magee
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*This class will meet in 1040 Dana.*
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Connected Vehicles Stdzn Diff
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problem-solving@umich.edu.

U of M Schedule of Classes Page 90 of 481 WN 2020 2270 03-05-2020 12:03 22412849
This is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

COURSE DESCRIPTION:

Hum Rights Mineral Supply Chain

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The extraction of minerals used to manufacture automobile components, including electric vehicle batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

Info Privacy, Survl. Exposure

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

Campus Sex. Misconduct Prev.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop a novel privacy solutions for such susceptible groups.

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731 Interdisc Prob Solv

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop a novel privacy solutions for such susceptible groups.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.
Please note that this course is restricted to SEAS PhD students.

This course meets only the 1st 7 weeks of term.

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### Intelligent Machines

This is the first of the SI 3-course entrepreneurship sequence (SI 260, SI 360, SI 460). It is recommended that you take these courses in this order.

#### Requirements

**ATTN BSI Students:** SI 260 is a lower-level elective course and will not count toward the 45-credit SI degree requirements.

**Cleaner text:**

- Only UMSI students may register for this section. Non-UMSI students should register either for an open seat or for the waitlist for the 001 section.
- Only Non-UMSI students may register for this section. UMSI students should register either for an open seat or for the waitlist for the 011 section.
- Students should not take this course if they took SI 206 prior to fall 2016. It is CRITICAL that students attend classes from the beginning of the term. Even though students may be registered officially for a course, the instructor may give away places in a course if students do not attend the first day of class. Students MUST attend the discussion for which they are enrolled.

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**Exp Design & Analy:**

Students MUST attend the discussion for which they are enrolled.
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U of M Schedule of Classes Page 94 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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30430  P RW LAB 106  TH  7-830PM  ARR  Newman, Grill

Only Non-UMSI students may register for this section. UMSI students should register either for an open seat or for the waitlist for the 007 section.

30430  P RW LAB 107  F  10-1130AM  ARR  Newman, Chen

511  Special Topics
33469  P LAB 001  ARR  ARR
33410  P W LAB 048  F  1-3PM  ARR  Fishman

Designing Future Undergrad Edu
30838  P W LAB 030  TH  10-1130AM  2245 NQ  Jurgens

NLP Algorithm People
30830 P RW LAB 107  F  10-1130AM  ARR  Newman, Chen

514  Special Topics
38406  P W LEC 001  F  1-3PM  2185 NQ  Fishman

Designing Future Undergrad Edu
515  Engin App Media Tech
30392  P W SEM 001  W  3-6PM  376 SM  O'Modhrain, Ulintz

21716  P RW LEC 001  T  2-5PM  1570 NUB  Besprozvan, Godin
25420  P RW LEC 002  TH  2-5PM  1570 NUB  Godin, Besprozvan

529  Online Communities
21113  P RW LEC 001  W  830-1130AM  G550 DENT  Lampe

530  Prin in Management
29062  P W LEC 001  M  830-1130-AM  2245 NQ  Robert

539  Des of Comp Websites
18282  P W LEC 001  TH  1-3PM  1200 CHEM  Van Lent

It is CRITICAL that students attend classes from the beginning of the term. Even though students may be registered officially for a course, the instructor may give away places in a course if students do not attend the first day of class. Students MUST attend the discussion for which they are enrolled.

23357  P RW DIS 002  M  4-5PM  2185 NQ  Van Lent, Im

23358  P RW DIS 003  T  9-10AM  2245 NQ  Van Lent, Im

27244  P RW DIS 004  M  1030-1130AM  1265 NQ  Van Lent, Geiman

27245  P RW DIS 005  M  530-630PM  2185 NQ  Van Lent, Geiman

548  Prin Soft Design
27443  P W SEM 001  W  4-7PM  2229 SEB  Quintana

554  Consumer Hlth Inform
34179  P RW LEC 001  M  530-830PM  A859 CHEM-TBLC  Williams, Canon
34141  P W LEC 101  M  530-830PM  ARR  Williams, Canon

Only Non-UMSI students may register for this section. UMSI students should register either for an open seat or for the waitlist for the 001 section.

564  SOL & Databases
34179  P RW LEC 001  M  4-530PM  2245 NQ  Hess, Jacobs
36574  P RW LEC 002  M  630-8PM  1255 NQ  Hess, Jacobs

570  Knowledge Org
32184  P RW LEC 001  M  530-830PM  2255 NQ  Thomas

574  HI Program Seminar
25083  P RW SEM 001  W  1-230PM  1000 426NIB  Kroll, Dunn

582  Intro Interac Design
21650  P RW LEC 001  TH  1-4PM  1255 NQ  McCary, Tambala

Only UMSI students may register for this section. Non-UMSI students should register either for an open seat or for the waitlist for the 001 section.

598  Interdisc Prob Solv
10198  P W LAB 001  W  315-415PM  ARR  Crane, Wu, Carr

605  Interdisc Prob Solv
30392  P W LAB 001  W  315-415PM  ARR  Crane, Wu, Carr

Connected Vehicles Stdzn Diff

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering,
information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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). Today’s information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

This class 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). The extraction of minerals used to manufacture automobile components, including electric vehicle batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The federal government funds many crucial social services for the poor. However, individual states -- which are rarely the focus of policy debates about social services -- are usually responsible for overseeing the provision of these services. This course will focus on emerging challenges to the delivery of social services in Michigan, including Medicaid, food stamps, and TANF. Working closely with officials from the Michigan Department of Health and Human Services, students will devise potential solutions to problems with the administration of state benefits for vulnerable populations.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.
This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

### Example Courses

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U of M Schedule of Classes Page 98 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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UX Research and Design
UX Research and Design
This course will meet in the AADL Secret Lab at 343 S. Fifth Ave.

UX Research and Design
UX Research and Design
This course requires flexible scheduling over these six hours. Students will only be required to attend three hours per week, however these three hours may shift weekly within the scheduled time frame.

Big Data Analytics
Big Data Analytics

Digital Curation
Digital Curation

Librarianship&Archival Practic
Capstone Project-Librarianship & Archival Practice

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Research Methods 4 Spec Pops
Science Tech&Med
Independent Study
Sem-Res Methods
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**School of Information Study Abroad (SIABRD)**

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Kinesiology

NOTE - ENROLLMENT NOT GUARANTEED FOR STUDENTS OTHER THAN KINESIOLOGY MAJORS. ATTENDANCE AT FIRST CLASS SESSION IS MANDATORY TO RESERVE YOUR PLACE IN CLASS. ACTIVITY CLASSES FOR NON-MAJORS ARE LISTED IN THE U-MOVE PROGRAM, AT THE END OF THE KINESIOLOGY SECTION.

School Of Kinesiology

Applied Exercise Science (AES)

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Anatomy & Physiology

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Intro to Fit&Health

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Research Opporunity

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Psychology of Exercise

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Methods of Instruction

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PA Lifespan

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U of M Schedule of Classes Page 101 of 481 WN 2020 2270 03-05-2020 12:03 22412849
16553 PIRW LEC 001 M 7-9PM 1250 USB Lepley 3.00 ADVISORY

17058 PIRW LEC 001 TTH 830-10AM 3733 CCRB Czajka 1.00 ADVISORY

17754 PIRW LAB 001 TH 10-12PM 3100 OBL Memmini 3.00 ADVISORY

215 Clin Eval-LE Inj II 3.00 ADVISORY

Requires concurrent enrollment in AT 217.

217 Clin Eval LE Inj II 1.00 ADVISORY

Requires concurrent enrollment in AT 215.

218 Emergency Response 3.00 25.00

20174 P RW LEC 001 MW 1-230PM ARR Harris

This section will meet in CCRB 3275.

21658 P RW LEC 002 TTH 10-1130AM 3275 CCRB Winkelseth

This section will meet in CCRB 3275.

21660 P RW LEC 004 MW 10-1130AM ARR Harris

This section will meet in CCRB 3275.

21659 P RW LEC 003 MW 830-10AM ARR Harris

This section will meet in CCRB 3275.

36229 P RW LEC 001 TTH 10-1130AM 3735 CCRB Pickerman 3.00 ADVISORY

402 Teach Exp 1.00-3.00 ENFORCED

IR IND +  ARR ARR

403 Internship in AT 1.00 ADVISORY

16094 PIR LAB 001 10-12PM 3040 CCRB Beemer

AT 221.002 is NOT open to enrollment for W20. AT 220 students must concurrently register for AT 221.001. (This course is crosslisted as HF 221. AT 220 students must register for HF 221.002.)

22392 P RW LAB 001 T 10-12PM 3040 CCRB Beemer

HF 221.001 is NOT open to enrollment for W20. Kines AES 220 students must concurrently register for the HF 221.002 lab section. (This course is crosslisted as AT 221. AT 220 students must register for AT 221.001.)

19471 PIR LEC 001 10-12PM 3100 OBL Memmini

Kines AES 220 students must concurrently register for the HF 221.002 lab section. (This course is crosslisted as AT 221. AT 220 students must register for AT 221.001.)

AT 220 students must concurrently enroll in the AT 221.001 lab. AES students, please enroll in AES 220.

405 Clin Exp Ath Train F 3.00 ADVISORY

21655 PIRW LEC 001 M 7-9PM 3733 CCRB Czajka

AT students, please join the waitlist to receive an override until the course is full. Enrollment is actively monitored. Override priority will be given to AT students.

420 Pharm Allied Hi Prof 2.00 ADVISORY, ENFORCED

20002 P RW LEC 001 MW 9-10AM 1100 OBL Czajka

Health and Fitness (HF)

221 Appl Hum Anat Lab 1.00 ADVISORY

22371 P RW LAB 001 TTH 10-12PM 3100 OBL Memmini

This section is reserved for AT students, ONLY. AT 220 students must concurrently register for AT 221.001. (This course is crosslisted as HF 221. AES 220 students must register for HF 221.002.)

22372 P RW LAB 002 M 1230-230PM 3040 CCRB Beemer

AT 221.002 is NOT open to enrollment for W20. AT 220 students must concurrently register for AT 221.001. (This course is crosslisted as HF 221. AES 220 students must register for HF 221.002.)

488 Ind Study AT I 1-6.00 ADVISORY

13544 P RW LEC 001 MWF 11-12PM 3040 CCRB Bodary

403 Internship in AT 1.00 ADVISORY

19940 PI LEC 002 F 1-3PM ARR Donahue, Barton, Szymanski

London

London

University of Limerick in Ireland

19939 PI LEC 004 1-3PM ARR Barton

19940 PI LEC 002 F 1-3PM ARR Donahue, Barton, Szymanski

London

University of Limerick in Ireland

19471 PIR LEC 003 ARR Barton

19940 PI LEC 002 F 1-3PM ARR Barton

London

University of Limerick in Ireland

19939 PI LEC 004 ARR Barton

Dublin, Ireland

University College Dublin in Ireland

24854 PI LEC 005 ARR Barton

Israel

24855 PI LEC 006 ARR Barton

New Zealand

New Zealand

26158 PI LEC 007 ARR Robinson, Barton

Australia- Univ of Wollongong

Australia- University of Wollongong

26160 PI LEC 008 ARR Kwak, Barton

South Korea

34107 PI LEC 009 F 1-3PM ARR Gross, Hennessy, Barton

Kinesiology (KINESLGY)

16554 PIRW LEC 001 M 7-9PM 3733 CCRB Czajka

AT 220 students must concurrently enroll in the AT 221.001 lab. AES students, please enroll in AES 220.

19470 PIR LEC 001 1-3PM ARR Barton

Australia

University of Queensland in Australia

19940 PI LEC 002 F 1-3PM ARR Donahue, Barton, Szymanski

London

University of Limerick in Ireland

19471 PIR LEC 003 ARR Barton

London

University of Limerick in Ireland

19939 PI LEC 004 ARR Barton

Dublin, Ireland

University College Dublin in Ireland

24854 PI LEC 005 ARR Barton

Israel

24855 PI LEC 006 ARR Barton

New Zealand

New Zealand

26158 PI LEC 007 ARR Robinson, Barton

Australia- Univ of Wollongong

Australia- University of Wollongong

26160 PI LEC 008 ARR Kwak, Barton

South Korea

34107 PI LEC 009 F 1-3PM ARR Gross, Hennessy, Barton

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Italy

402 Teach Exper
  I  IND +  ARR  ARR  1.00-3.00 ADVISORY

413 Special Topics MVS
  24249  P RW LEC 001  P  11-12PM  2100 OBL  Broglio

Concussion in Sport
  24250  P  LEC 002  ARR  ARR
  35831  P RW LEC 005  F  12-13PM  3040 CCRB  Umberger

ComputerModeling_SimulBiomech

Computer Modeling and Simulation in Biomechanics - This course covers advanced biomechanical analysis of human movement through the integration of computer models of the musculoskeletal system with experimental human movement data. Students will learn how to analyze and interpret external and internal forces acting on the body and the effects of those forces, with applications to human health and performance. Learning will be achieved through a series of lectures, readings, and hands-on assignments. It is recommended for students to have completed MOVESCI 330, or equivalent (undergraduate biomechanics), before taking this course.

34729  P  LEC 006  TTH 1-2PM  3735 CCRB  Mergos

Surg Neuroma & Periop Injury
W20- no enrollment.

421 Disord Vol Move
  23119  P R  LEC 001  ARR  ARR  3.00 ENFORCED

422 Motor Learning
  32383  P RW LEC 001  F  9-10PM  3733 CCRB  Vesia

423 Sensorimot Dev
  32384  P R  LEC 001  ARR  ARR

424 Aging&Motor Perfmc
  33705  P RW LEC 001  TTH 5-6PM  3733 CCRB  Brown

425 PA & Ped Disability
  21657  P RW LEC 001  MW 230-4PM  3040 CCRB  Qu, Marra

426 PA & Ped Disability
  33705  P RW LEC 001  MW 230-4PM  3060 CCRB

428 AppMotorDevChildren
  29192  P LAB 001  ARR  ARR

Cancelsed

429 Lab MtrCnt Dev
  13564  PIRW LAB 001  ARR  ARR
  13564  PIRW LAB 002  ARR  ARR
  16110  PI  LAB 003  ARR  ARR
  17148  PI  LAB 004  ARR  ARR
  17573  PI  LAB 005  ARR  ARR
  20911  PI  LAB 006  ARR  ARR
  23801  PI  LAB 007  ARR  ARR

439 Lab Biomechanic
  13564  PIR  LAB 001  ARR  ARR
  16110  PI  LAB 002  ARR  ARR
  18497  PI  LAB 003  ARR  ARR
  18530  PI  LAB 004  ARR  ARR
  19401  PI  LAB 005  ARR  ARR
  22619  PI  LAB 006  ARR  ARR
  23515  PI  LAB 007  ARR  ARR
  24640  PI  LAB 008  ARR  ARR
  24741  PI  LAB 009  ARR  ARR
  28047  PI  LAB 010  ARR  ARR

442 Exer Endocrinology
  29185  P RW LEC 001  M  4-7PM  2100 OBL  Haus

446 Soc Factors Phys Act
  33374  P RW LEC 001  TH 1-4PM  2100 OBL  Hasson

449 Lab Exer Phys
  13566  PIR  LAB 001  ARR  ARR
  13566  PIR  LAB 002  ARR  ARR
  13568  PIR  LAB 003  ARR  ARR
  16112  PI  LAB 004  ARR  ARR
  17414  PI  LAB 005  ARR  ARR
  19279  PI  LAB 006  ARR  ARR
  19967  PI  LAB 007  ARR  ARR
  20042  PI  LAB 008  ARR  ARR
  23824  PI  LAB 009  ARR  ARR
  36652  PI  LAB 010  ARR  ARR

451 PA Lifespan
  33378  P RW LEC 001  F  11-12PM  1100 OBL  Hasson

452 Exp w/Wearable Tech
  36611  P RW LAB 001  TTH 10-11AM  A859 CHEM-TBLC  Bodary

505 Disability Studies
  21085  PI  SEM 001  TH  2-5PM  G463 MH  Kupetz

Disability/Culture
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**Movement Science (MOVESCI)**

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<td>1100 OBL</td>
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<td>This section is held for Kinesiology students. Non-Kinesiology students should waitlist under section 012.</td>
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<td>MW 10-11AM</td>
<td>2100 OBL</td>
<td>Kern, Stewart, Gross, Bodary</td>
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<td>3040 CCRB</td>
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<td>20538</td>
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<td>TTH 830-10AM</td>
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<td>20539</td>
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<td>20541</td>
<td>P RW LEC 004</td>
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<td>TTH 130-3PM</td>
<td>3100 OBL</td>
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<td>22225</td>
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<td>TTH 1130-1PM</td>
<td>3741 CCRB</td>
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<td></td>
<td>Students, please come to 3745D CCRB for the first day of class. Thanks.</td>
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<td>32340</td>
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<td></td>
<td>MW 4-530PM</td>
<td>3741 CCRB</td>
<td>Palmer</td>
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</table>
KINES MOVESCI 230 students must concurrently register for one MOVESCI 231 lab. Each MOVESCI 231 lab enrolls separately from MOVESCI 230 and seats are limited.

Kinesiology students enrolled in MOVESCI 231 must concurrently enroll in MOVESCI 230. Each MOVESCI 231 lab enrolls separately from MOVESCI 230 and seats are limited.

"Intro Surgical Neuromonitoring" can be substituted for PHYSIOL 201 as a prerequisite for MOVESCI 320 (only.) Students will need to email kinesregistration@umich.edu to request an override.

"Intro Surgical Neuromonitoring" can be substituted for PHYSIOL 201 as a prerequisite for MOVESCI 320 (only.) Students will need to email kinesregistration@umich.edu to request an override.

"Intro Surgical Neuromonitoring" can be substituted for PHYSIOL 201 as a prerequisite for MOVESCI 320 (only.) Students will need to email kinesregistration@umich.edu to request an override.

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### Special Topics MVS 3.00

Computer Modeling and Simulation in Biomechanics - This course covers advanced biomechanical analysis of human movement through the integration of computer models of the musculoskeletal system with experimental human movement data. Students will learn how to analyze and interpret external and internal forces acting on the body and the effects of those forces, with applications to human health and performance. Learning will be achieved through a series of lectures, readings, and hands-on assignments. It is recommended for students to have completed MOVESCI 330 before taking this course.

Concussion in Sport

Advisory Prereq: It is STRONGLY recommended for students to have completed MOVESCI 361 before enrolling in this course. Students who have already taken MOVESCI 361 should not enroll in this course.

Surg Neuromat & Periop Injury

This course is crosslisted as AES 446 and KINESLGY 446.

### Lab Exer Phys 1.00-3.00 ADVISORY

Bodary  Borer  Horowitz  Haus  Cartee  Argirola  Smith  Zernicke
33314 PA Lifespan 11-2PM 1100 OBL 3.00
This course is crosslisted as AES 451 and KINESLGY 451.

14307 Exp w/ Wearable Tech 10-1130AM A859 CHEM-TBLC 3.00
W20- Movement Science students, please join the waitlist. You will not need to email anyone for override consideration. Override priority will be given to MVS seniors. We will enroll this course once a classroom is secured. Thank you.

467 Clin Rot IONM III 3.00

475 Pharm Allied Hi Prof 2.00 ADVISORY, ENFORCED
This course is crosslisted as AT 420, which is open to enrollment by AT students. MVS students, please join the waitlist for override consideration. Override priority will be given to AT students.

481 Service - Hith Prof 2.00

Physical Education (PHYSED)

140 Beginning Swim 1.00
Class will be held at CCRB in the 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.

30499 PD W LAB 002 TTH 7-8PM ARR Winkelseth

Class will be held at CCRB in the 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.

38125 PD W LAB 002 TTH 7-8PM ARR Winkelseth

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
Class will be held at CCRB in the 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.
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.

Class will be held at CCRB in the 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, breaststroke and backstroke. 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.

### 143 Lifeguard Training
- **CR**: 1.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3733 CCRB
- **Instructor**: Winkelseth

### 144 Lifeguard Training
- **CR**: 1.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3733 CCRB
- **Instructor**: Winkelseth

### 255 Hlth Ed Elem Teacher
- **CR**: 3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3040 CCRB
- **Instructor**: Winkelseth

### 290 Field Exp PHYSED
- **CR**: 1.00-4.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3733 CCRB
- **Instructor**: Winkelseth

### 326 Fund of Strength&Cond
- **CR**: 3.00
- **PREREQ**: ADVISORY, ENFORCED
- **FEE**: 20.00
- **Location**: 3735 CCRB
- **Instructor**: Pickerman

### 336 K-12 Rhythms&Dance
- **CR**: 3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3735 CCRB
- **Instructor**: Winkelseth

### 349 Water Safety Inst
- **CR**: 2.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3733 CCRB
- **Instructor**: Winkelseth

### 370 Honors Reading
- **CR**: 1.00-3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### 380 Honors Research
- **CR**: 1.00-2.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### 390 Field Experience
- **CR**: 0.50-8.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### 402 Teach Exp PE
- **CR**: 1.00-3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### 470 Independent Study
- **CR**: 1.00-3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### 490 Sr Honors Thesis
- **CR**: 1.00-4.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB
- **Instructor**: Winkelseth

### Sport Management (SM)

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### Pub&Small Grp Comm
- **CR**: 3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB

### 111 Iss in Sport&Fitness
- **CR**: 3.00
- **PREREQ**: ADVISORY
- **FEE**: 20.00
- **Location**: 3741 CCRB

### U of M Schedule of Classes Page 108 of 481 WN 2020 2270 03-05-2020 12:03 22412849
<table>
<thead>
<tr>
<th>Course Title</th>
<th>CR</th>
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<tr>
<td>Intro Sport Mgmt</td>
<td>3.00</td>
<td>830-10AM</td>
<td>1528 NUB</td>
<td>George</td>
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<tr>
<td>Business Comm</td>
<td>3.00</td>
<td>10-1130AM</td>
<td>3100 OBL</td>
<td>Phelan</td>
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<tr>
<td>Intro Acc&amp;Fin</td>
<td>3.00</td>
<td>830-10AM</td>
<td>1400 CHEM</td>
<td>Szymanski</td>
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<td>Prin of Marketing</td>
<td>3.00</td>
<td>830-10AM</td>
<td>3735 CCRB</td>
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<td>Research Methods</td>
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<td>10-1130AM</td>
<td>3254 LSA</td>
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<td>Research Opport</td>
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Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.
Social Media Marketing in Sport

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

32423 P RW LEC 009 MW 230-4PM 3733 CCRB Wade

Expertship in Sport Industry

Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses. This course is designed to provide students with theories, concepts, techniques, benefits and challenges associated with experiential marketing in the professional sport industry. Students will examine case studies from a variety of events, hear guest lectures from executives in the industry, and create a plan for a consumer experience surrounding a sports event.

29268 P RW LEC 010 TTH 10-1130AM 1570 NUB Wang

Introduction to Sport Analytics

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

33845 P RW LEC 011 TTH 12-130PM 3100 OBL Szymanski

Detroit Olympics

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

317 Career Planning

32425 P RW LEC 001 TTH 10-1130AM 2100 OBL Donahue

Org Behave-Sport Org

332 Org Behave-Sport Org

22397 P RW LEC 001 MW 830-10AM 3040 CCRB Heinze

32445 P RW LEC 002 TTH 830-10AM 3741 CCRB Phelan

We are all consumers of sport to some extent—as a participant, spectator, and/or viewer. This course focuses on various factors (e.g., situational, cultural, personal, psychological) that affect sport consumer behavior and decision making process. In particular, this course will discuss various theories and concepts that have been documented in psychology, marketing, communication, and sport management, and will connect them to reflect current marketing trends and challenges in the sport setting. A major project in this course is to conduct an empirical study that applies one of theories/concepts discussed in class to deepen their learning and analytical skills in consumer behavior. Readings will be assigned. No textbook required.

436 Race Rel,Cul Images

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

437 Psych Sport&Exer

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

439 Sponsorsip Lnkd Mrktng

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

444 Sales Mng in Spt Ind

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

445 Sport Tourism

Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.
Today's brands have transcended beyond mere marks of ownership, which aid commercial exchange, to become full-fledged cultural producers. This transcendence was no act of serendipity or result of happenstance. Rather, marketers have committed themselves to building strong brands that have relevance and global reach. Understanding the strategic decisions that go into building such brands will arm future marketers with the skills they need to develop, manage, and grow these brands themselves. This course, therefore, is designed to explore the building-blocks of branding and how marketers communicate brand ideas through effective advertising campaigns and powerful creative ideas. Led by Prof Marcus Collins- award-winning advertiser and Adage '40 Under 40' recipient, the course will leverage his experience working on blue-chip brands (Apple, Nike, AB-InBev, Beyonce) and major sport teams (Brooklyn Nets, LA Clippers, Detroit Pistons) to unpack the characteristics of what makes brands strong; how to build one; how to extend it and leverage it; how to value it, guard it and grow it; and lastly, how to impute these characteristics through compelling advertising.

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

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.
# LSA Residential College

## College of L S A Residential College

### Fine Arts (RCARTS)

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<td>TTH</td>
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<td>334</td>
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Please contact Charlie Murphy (cmurph@umich.edu) with questions about the class.

### Core Courses (RCORE)

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U of M Schedule of Classes  Page 112 of 481  WN 2020 2270 03-05-2020 12:03 22412849
How to Think With Words 220 Narration 4.00
Intro to Fiction Writing 221 Writing of Poetry 4.00 ADVISORY

13502 P RW SEM 001 MW 4-530PM B810 EQ Messer

13503 P RW LAB 001 MW 10-1130AM B830 EQ Genne

235 Topics World Dance 3.00

13504 P RW SEM 001 TTH 4-530PM B424 EQ Leson

Terpsichore and Apollo 252 Topics Music Express 2.00

20625 P RW LAB 001 TTH 6-9PM B424 EQ Hottmann

Chinese Instrumental Music Ens 254 Human Voice 4.00

32313 P R LAB 001 TTH 10-12PM B424 EQ Goltz-Taylor

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

250 Chamber Music 1.00

Students will only meet 1-2 hours per week, chosen from the listed course hours by the instructor after the interview/audition. Tuesday 6-9PM section meets in EQB503.

250 Chamber Music 1.00

16113 PI LAB 002 ARR ARR Ervamaa

Terpsichore and Apollo 252 Topics Music Express 2.00

20625 P RW LAB 001 TTH 6-9PM B424 EQ Hottmann

Chinese Instrumental Music Ens 254 Human Voice 4.00

32313 P R LAB 001 TTH 10-12PM B424 EQ Goltz-Taylor

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

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Chinese Instrumental Music Ens 254 Human Voice 4.00

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**U of M Schedule of Classes**

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### Law

#### Law School

**Law (LAW)**

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**Notes:**
- All courses are ENFORCED except where noted.
- Class codes are PDR, LEC.
- Location codes are HUTCH, JEFFRIES.
- Instructor names are provided for each course.

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- University of M
- Schedule of Classes
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**NOTICE--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 STUDENT'S PLACES IN A COURSE IF THEY DO NOT ATTEND:---THE FIRST MEETING OF BIOLOGY, CHEMISTRY, AND PHYSICS LABORATORIES;---THE FIRST 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 DEPARTMENTS.

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 THE REGISTRATION SYSTEM DURING THE NORMAL DROP/ADD PERIOD.

### Department of Afro-American and African Studies

**Afroamerican & African Studies (AAS)**

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| 311 | Arab Amer Stud/HU | 3.00-4.00 |
| 238 | Art/Music of the Islamic World | |
| 367 | Arab American Literature | |

**Asian Pacific Island American Studies (ASIANPAM)**

| 204 | Themes A/PIA Studies | 3.00 |
| 214 | Asian/Pacific Amer St | 4.00 |
| 280 | The U.S. & the Pacific World | |

**Digital Studies (DIGITAL)**

| 200 | Dig Media Writing | 3.00 |
| 201 | Dig Media Wrtg Mini | 1.00 |

**Arab American Literature**

| 330 | ArabAm Cultural Stds | 4.00 |
| 384 | Islamophobia | 3.00 ENFORCED |
| 390 | AMAS Internship | 1.00-4.00 |
| 405 | Topics Arab American | 3.00-4.00 |

**Muslim Mental Health**

| 325 | Pacific Lits&Cult Stds | 3.00 |
| 353 | A/PIA Cultural Perf | 3.00 |
| 359 | South Asian Diaspora | 3.00 ENFORCED |

**A/PIA in Civil Rights Movement**

| 388 | Field Study I | 1.00-4.00 ADVISORY |

**Digital Culture**

| 3160 | AI LEC 001 TTH | 1-230PM | UMMA AUD | Cheney-Lippold |
| 3161 | PI W DIS 003 TH | 3-4PM | 3347 MH | Cheney-Lippold |
| 3162 | PI W DIS 004 TH | 6-7PM | 3348 MH | Salman, Cheney-Lippold |
| 3163 | PI W DIS 005 TH | 4-5PM | 5180B AH | Salman, Cheney-Lippold |
| 3164 | PI W DIS 006 F | 11-12PM | 1401 MH | Ehrhardt, Cheney-Lippold |
| 3165 | PI W DIS 007 F | 12-1PM | 5180B AH | Ehrhardt, Cheney-Lippold |

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# Anthropology Department

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## Origins of States

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## Origins of Health & Disease

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*Students are auto-enrolled in lecture when they elect a discussion.*
Lab time will be arranged after classes begin.

569  Grant-Writing  3.00  Rosenbaum
33297 P W SEM 001 T  4-7PM  270 TAP  
570  Bioanthro Overview  3.00  ADVISORY  Marshall
21075 P W LEC 001 W  1-4PM  418 WH  
571  Bio Anthro Seminar  1.00  Beehner
31451 P W SEM 001 W  4-5PM  ARR  
665  Topic Human Evolution  2.00  ADVISORY  Wolpoff
31452 P W SEM 001 TH  11-1PM  231 WH  

Neandertal! What went wrong?

956  Respon Anth Research  0.50  Roberts, Stewart, Meek, Kingston
25081 P W SEM 001 M  8-10AM  ARR  

This class meets 8:00-10:00 AM on 1/27/20, 2/3/20, 2/10/20, and 2/17/20 in 111 WH.

961  Research Practicum  2.00-8.00  ADVISORY  
962  Anthropological Res  1.00-3.00  ADVISORY  
963  Survey Lit-Topics  1.00-3.00  ADVISORY  
990  Diss-Precand  8.00  ENFORCED  
996  Diss-Cand  8.00  ENFORCED  

Anthropology Cultural (ANTHRCUL)

101  Intro to Anthro  4.00  Chivers
10913 A LEC 001 MWF 11-12PM  AUD 3 MLB  
STUDENTS ARE AUTO-ENROLLED IN LEC 001 WHEN THEY ELECT A DIS 003-014. DIS SECTIONS DO NOT MEET UNTIL AFTER THE FIRST WEEK OF CLASSES.
10924 A LEC 002 TTH 10-1130AM  AUD 3 MLB  
STUDENTS ARE AUTO-ENROLLED IN LEC 002 WHEN THEY ELECT A DIS 027-044. DIS SECTIONS DO NOT MEET UNTIL AFTER THE FIRST WEEK OF CLASSES.

This special section will include activities and discussions informed by dialogic pedagogy. Of interest to students who would like to explore topics of social identity and social justice, this section will allow them to make connections between course content and current conversations around issues of race and ethnicity. Students who participate in the section can earn credit towards the Minor in Intergroup Relations Education.

10914 P DIS 003 M  2-3PM  418 WH  Solano Del Castillo
10915 P DIS 004 M  3-4PM  1632 CHEM  Baci
10916 P DIS 005 T  9-10AM  238A WH  Han
10917 P DIS 006 F  12-1PM  238A WH  Solano Del Castillo
10918 P DIS 007 F  1-2PM  238A WH  Solano Del Castillo
10919 P DIS 008 W  3-4PM  238A WH  Baci
17441 P DIS 010 T  4-5PM  238A WH  Geiger
17442 P DIS 011 M  3-4PM  1628 CHEM  Geiger

This special section will include activities and discussions informed by dialogic pedagogy. Of interest to students who would like to explore topics of social identity and social justice, this section will allow them to make connections between course content and current conversations around issues of race and ethnicity. Students who participate in the section can earn credit towards the Minor in Intergroup Relations Education.

10921 P DIS 012 W  1-2PM  238A WH  Han
10922 P DIS 013 W  2-3PM  238A WH  Han
10923 P DIS 014 M  4-5PM  049 UMMA  Baci
10924 P DIS 015 M  3-4PM  1632 CHEM  Mulvey
10925 P DIS 016 M  4-5PM  2437 MH  Mulvey
10926 P DIS 017 M  3-4PM  3460 MH  Mulvey
10927 P DIS 018 M  2-3PM  1518 NUB  Contreras
10928 P DIS 019 M  3-4PM  1518 NUB  Contreras
10930 P DIS 020 M  1-2PM  238A WH  Everhart
10931 P DIS 021 M  2-3PM  238A WH  Everhart
10932 P DIS 022 M  3-4PM  238A WH  Everhart
10933 P DIS 023 M  4-5PM  238A WH  Everhart
10934 P DIS 024 M  5-6PM  238A WH  Everhart
10935 P DIS 025 M  5-6PM  238A WH  Everhart
10936 P DIS 026 M  11-12PM  238A WH  Bernard
10937 P DIS 027 M  11-12PM  238A WH  Bernard
19847 P DIS 036 W  3-4PM  373 LORCH  Bernard
21221 P DIS 043 F  11-12PM  238A WH  Nash
21222 P DIS 044 F  12-1PM  238A WH  Nash
21711 P DIS 046 TH  2-3PM  238A WH  Nash

158  1st Yr Sem Anthro  3.00  ADVISORY  Dua
33316 P RW SEM 001 TTH  10-1130AM  171 LORCH  

Oceans: Life and Culture

226  Intro Hist Anthro  3.00  Frye
17008 P LEC 001 MW  1-230PM  210 WH  
252  Law and Culture  4.00  Talevich
27398 A LEC 001 TTH  1-230PM  296 WEISER  Dua
27399 P W DIS 002 M  2-3PM  1636 CHEM  Talevich
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Applied Physics Program

**Applied Physics (APPPHYS)**

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**U of M Schedule of Classes**

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Asian Languages And Cultures

Asian Studies (ASIAN)

200 Infr Jpn Civilizatn 3.00
33329 P W LEC 001 MW 1130-1PM G020 TMC Brightwell

205 Modern East Asia 4.00
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
10959 A LEC 001 MW 10-1130AM LEC RM 1 MLB Cassel
10960 P W DIS 002 W 12-1PM 2412 MLB Zhang
10961 P W DIS 003 W 1-2PM 2402 MLB Zhang
10962 P W DIS 004 W 3-4PM 3460 MH Luo
31546 P W DIS 005 W 4-5PM 1401 MH Luo

231 Intro Tibet Buddhism 4.00
33386 A LEC 001 TTH 1-230PM G005 DENT Lopez Jr
33387 P W DIS 002 F 10-11AM B113 MLB Haynie
33388 P W DIS 003 F 11-12PM B113 MLB Haynie
33389 P W DIS 004 F 12-1PM G026 TISCH Khare
33390 P W DIS 005 F 1-2PM G026 TISCH Khare

252 Ug Sem Jpn Cult 4.00
24310 P RW SEM 001 TTH 830-10AM 1110 NQ Auerback

Hybrid Japan

258 Food & Drink of Asia 4.00
33671 A LEC 001 MW 230-4PM UMMA AUD Brown
33672 P W DIS 002 F 9-10AM 2114 MLB Chung
33674 P W DIS 004 F 12-1PM 2185 NQ Xu
33675 P W DIS 005 F 1-2PM 3310 MLB Xu
33676 P W DIS 006 F 2-3PM 2155 NQ Xu
33677 P W DIS 007 F 10-11AM 2175 NQ Bogart
33678 P W DIS 008 F 11-12PM 1155 NQ Bogart
36772 P W DIS 009 F 2-3PM 3451 MH Bogart

259 Mod India and S Asia 4.00
31548 AI LEC 001 MW 4-530PM 3463 MH Sinha
31549 P W DIS 002 TH 12-1PM B116 MLB Mace
31550 P W DIS 003 TH 1-2PM B116 MLB Mace

261 Intro Modern China 4.00
29606 A LEC 001 MW 1-230PM UMMA AUD Rebull
29607 P W DIS 002 F 10-11AM 049 Umma Macdougall
29608 P W DIS 003 F 12-1PM 049 Umma Macdougall
29609 P W DIS 004 F 1-2PM 2011 MLB Macdougall

263 Chinese Philosophy 4.00
29612 A LEC 001 TTH 230-4PM 3254 LSA Ozbey
33258 P W DIS 002 F 9-10AM B103 MLB Yiu
33259 P W DIS 003 F 11-12PM 1033 DENT Yiu

277 US-Korea Relations 4.00
33331 A LEC 001 MW 1130-1PM 2022 STB Ryu
33333 P W DIS 003 F 12-1PM 3411 MH Pinzaru
33334 P W DIS 004 F 2-3PM 1245 NQ Pinzaru

319 Japanese Spirits 3.00
33325 P W SEM 001 TTH 230-4PM 1110 NQ Auerback

320 Jpn Perform Culture 3.00
33907 P W SEM 001 MW 230-4PM G168 AH Jackson

322 War Tales: Jpn & Chn 3.00
33328 P W SEM 001 MW 4-530PM 4151 USB Brightwell

324 Islam in South Asia 4.00
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31667 P W DIS 002 T 1-2PM 3411 MH Gupta, Mir
31672 PI DIS 003 ARR ARR Mir
33804 P W DIS 004 W 11-12PM 2462 MH Gupta

325 Zen Buddhism 4.00
27335 A LEC 001 MW 1130-1PM 1020 SPH2 Ahn
27529 P W DIS 002 F 10-11AM 2202 MLB Mosiniak
27530 P W DIS 003 F 10-11AM 3401 MH Chen
27531 P W DIS 004 F 11-12PM 3254 LSA Chen
27532 P W DIS 005 F 12-1PM 3448 MH Mosiniak
27533 P W DIS 006 F 1-2PM B115A MLB Suk
27534 P W DIS 007 F 2-3PM 2202 MLB Suk
29910 P W DIS 008 F 3-4PM 2202 MLB Suk
30810 P W DIS 009 F 1-2PM 049 Umma Mosiniak

328 Theravada Buddhism 3.00
33396 P W LEC 001 MW 4-530PM 2437 MH White

338 Hum Topics: S Asia 3.00
29603 P W SEM 001 TTH 4-530PM 180 TAP Lopez Jr, Carr

340 G Khan to Taliban 4.00
31584 SI LEC 001 MW 1-230PM 2260 USB Northrop
31588 PI W DIS 002 W 3-4PM B103 MLB Smith
31592 PI W DIS 003 TH 10-11AM 806 BMT Smith
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104 1st Yr Heritage Chn 4.00 ENFORCED
29875 PIRW REC 001 MTWTH 9-10AM 3315 MH Zhong

105 Mandarin Pronunciation 1.00 ENFORCED
29939 PIRW REC 001 MTWTH 1-2PM 5000 STB Grande

108 Chinese Characters 1.00 ENFORCED 10.00
23289 PIRW REC 001 MTWTH 1-2PM 3000 STB Grande

112 1st Yr Filipino II 4.00 ENFORCED
11896 PIRW REC 001 MTWTH 9-10AM 4000 STB Kuester

116 1st Yr Hindi II 4.00 ENFORCED
11894 PIRW REC 001 MTWTH 9-10AM 2155 NQ Gill

11895 PIRW REC 002 MTWTH 10-11AM 3440 MH Ali

33610 PIRW REC 003 MTWTH 12-1PM B118 MLB Khan

122 1st Yr Indonesian II 4.00 ENFORCED
11893 PIRW REC 001 MTWTH 10-11AM 4306 MLB

124 1st Year Japanese II 3.00 ENFORCED
24326 PIRW REC 001 MWF 12-1PM 171 LORCH Schad

126 1st Yr Japanese II 5.00 ENFORCED
11504 SIR LEC 001 MTTH 9-10AM 1339 MH Yasuda
STUDENTS MUST ELECT RECITATION AND LECTURE SECTIONS.

11505 SIR LEC 002 MTTH 10-11AM 1339 MH Yasuda
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11506 SIR LEC 003 TTH 11-12PM 1339 MH Yasuda
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104 1st Year Japanese II 3.00 ENFORCED
11508 PIRW REC 005 MWF 10-11AM 2462 MH Schad

11509 PIRW REC 006 MWF 11-12PM 171 LORCH Yasuda
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11511 PIRW REC 008 MWF 2-3PM 3353 MH Schad

11512 PIRW REC 009 MWF 3-4PM 1185 NQ Schad

11513 PIRW REC 010 MWF 5-6PM 2135 NQ Oka

128 Basics of Kanji 2.00 ENFORCED
33667 PIRW REC 001 TH 4-6PM 2112 MLB Hoffmeyer

136 1st Year Korean II 5.00 ENFORCED
19396 SIR LEC 001 TTH 9-10AM 1105 NQ Kim
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33651 SIR LEC 002 TTH 10-11AM 2114 MLB Kim
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11507 PIRW REC 004 MWF 9-10AM 2448 MH Yasuda
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11509 PIRW REC 006 MWF 11-12PM 171 LORCH Yasuda
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11511 PIRW REC 008 MWF 2-3PM 3353 MH Schad

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146 1st Year Punjabi II 4.00 ENFORCED
33613 PIRW REC 001 MTWTH 12-1PM 3000 STB Gill

156 1st Yr Tamil II 4.00 ENFORCED
33617 PIRW REC 001 MTWTH 9-10AM 3205 MLB Mohan

162 1st Yr Thai II 4.00 ENFORCED
11892 PIRW REC 001 MTWTH 9-10AM 3319 MLB Burmee

172 1st Yr Urdu II 4.00 ENFORCED
16108 PIRW REC 001 MTWTH 9-10AM 2401 MH Ali, Vaishnava

176 1st Yr Vietnamese II 4.00 ENFORCED
11897 PIRW REC 001 MTWTH 11-12PM B118 MLB Nguyen

186 First Yr Bengali II 4.00 ENFORCED
27343 PI W REC 001 MTWTH 9-10AM 2104 MLB Hoque

202 2nd Yr Chinese II 5.00 ENFORCED
11163 PIRW REC 001 MTWTTH 9-10AM 3440 MH Liu

11164 PIRW REC 002 MTWTTH 10-11AM 1303 MH Liu

11165 PIRW REC 003 MTWTTH 11-12PM G634 HH Zhong

11166 PIRW REC 004 MTWTTH 12-1PM 3359 MH Zhong, Xu

11167 PIRW REC 005 MTWTTH 3-4PM 2011 MLB Yu, Qiu

204 2nd Yr Heritage Chn 4.00 ENFORCED
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11169 PIRW REC 002 MTWTH 10-11AM G421 MBM Gu

11170 PIRW REC 003 MTWTH 1-2PM 3448 MH Liu

24730 PIRW REC 004 MTWTH 3-4PM B120 MLB Liu

212 2nd Yr Filipino II 4.00 ENFORCED
11901 PIRW REC 001 MTTH 11-12PM 3319 MLB Kuester

212 2nd Yr Filipino II 4.00 ENFORCED
31607 PIRW REC 001 W 1030-1130AM 3217 MLB

216 2nd Yr Hindi II 4.00 ENFORCED
11900 PIRW REC 001 MTWTH 11-12PM 1303 MH Gill, Vaishnava

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**Buddhist Studies (BUDDHST)**

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If you would like to take this course, please enroll. The final time of when the course will meet will be decided in consultation with the enrolled students.
# Astronomy Department

## Astronomy (ASTRO)

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### 101 Intro Solar System
- **Class #**: 21760
- **CODE**: SI
- **CMP**: LEC
- **SEC**: 001
- **DAYS**: MWF
- **TIME**: 12-1PM
- **LOCATION**: 182 WEISER
- **INSTRUCTOR**: Hartmann, Lopresto

Registration after Friday, January 17th will require instructor permission.

### 102 Intr Stars&Universe
- **Class #**: 10986
- **CODE**: SI
- **CMP**: LEC
- **SEC**: 001
- **DAYS**: TTH
- **TIME**: 1-230PM
- **LOCATION**: 182 WEISER
- **INSTRUCTOR**: Roederer, Lopresto

Registration after Monday, January 20th will require instructor permission.

### 105 Cosmos Constellatns
- **Class #**: 29577
- **CODE**: P
- **CMP**: LEC
- **SEC**: 001
- **DAYS**: TTH
- **TIME**: 9-10AM
- **LOCATION**: 260 WEISER
- **INSTRUCTOR**: Oey

### 106 Aliens
- **Class #**: 20608
- **CODE**: P
- **CMP**: LEC
- **SEC**: 001
- **DAYS**: MW
- **TIME**: 2-3PM
- **LOCATION**: 3118 AH
- **INSTRUCTOR**: Lopresto

First 7 week session (2020: January 8 - February 25)

### 115 Intro Astrobiology
- **Class #**: 22404
- **CODE**: P
- **CMP**: LEC
- **SEC**: 001
- **DAYS**: TTH
- **TIME**: 10-1130AM
- **LOCATION**: 260 WEISER
- **INSTRUCTOR**: Monnier

100th Anniversary of the University of Michigan
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Biology Department

Biology (BIOLOGY)

--A STUDENT WHO DOES NOT ATTEND THE FIRST MEETING OF A BIOLOGY, CHEMISTRY, OR PHYSICS LABORATORY MAY BE DROPPED FROM THE COURSE FOR NON-ATTENDANCE.

--ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION SYSTEM TO MAKE SURE THAT THEIR OFFICIAL SCHEDULE MATCHES THE COURSES THEY ARE ATTENDING.

--FOR ADDITIONAL COURSES, PREVIOUSLY LISTED UNDER BIOLOGY, PLEASE CHECK THE LISTINGS FOR EEB (ECOLOGY AND EVOLUTIONARY BIOLOGY) AND MCD (MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY).

102 Practical Botany 4.00  50.00

24953 SI W LEC 001 MF  12-1PM  AUD C AH  Qiu
THE BUS LEAVES IN FRONT OF THE RACKHAM BUILDING ON E. WASHINGTON ST. AT 12:10 PM OR 2:40 PM SHARP, AND LEAVES THE MATTHAEI BOTANICAL GARDEN AT 3:00 PM AND 5:30 PM SHARP.

24957 PI W LAB 002 T  12-3:30PM  BOT GARD  Shiffler

This course meets for the 1st 7 weeks of the term.

107 Evolution of Life 3.00

28718 PI W LEC 001 MWF  3-4PM  1060 BSB-TBL  Carpenter

109 Ecological Knowledge 3.00

26933 PI W LEC 001 TTH  2-4PM  1210 CHEM  Lehman

112 Evolution of Humans 1.00

27623 PI W LEC 001 F  12-2PM  2244 USB  Carpenter

This course meets for the 2nd 7 weeks of the term.

118 The Science of Study 1.00

34233 PI SEM 001 TTH  12-2PM  2244 USB  Carpenter

Intended for Freshmen and Sophomores. Students must be co-enrolled in an Introductory Natural Science course. This course meets for the 2nd 7 weeks of the term.

BIO 117.002 IS AN ONLINE ONLY COURSE. Students must be co-enrolled in BIO 171 or BIO 172 or BIO 173. Registration upon request. Please complete the form found at the following site https://tinyurl.com/BIO117. The course will be available from February 10, 2020 - April 3, 2020. Questions about the on-line section should be directed to Dr. Lynn Carpenter (landersn@umich.edu).

119 AIDS 3.00

32178 PI LEC 001 TTH  8:30-10AM  1800 CHEM  Bender

120 First Year Sem Biol 3.00

20609 PIRW SEM 001 TTH  2-3PM  3265 USB  Kondrashov

Implications of Evol Biol

26944 PIRW SEM 002 MW  10-11:30AM  2333 MH  Ameziane

Mysterious Minds

121 Topics in Biology 1.00-3.00

32216 PI LEC 001 TTH  2-4PM  1505 NUB  Klionsky

Supermarket Biology

33760 PI LEC 002 F  2-3PM  1400 CHEM  Schmidt, Gdanetz MacCready

The Human Microbiome

THE HUMAN MICROBIOME: PLEASE NOTE SECTION 002 IS A FULL TERM COURSE (JAN - APR). DEADLINE FOR REGISTRATION IS IN EARLY JANUARY.

171 Intro Biology, EEB 4.00

--THE FIRST LECTURE WILL BE HELD WEDNESDAY, JAN. 8. --DISCUSSION SECTIONS BEGIN THE WEEK OF JAN.13. --EVENING MIDTERM EXAMS WILL BE GIVEN ON WEDNESDAYS, JAN. 29, FEB. 26, AND MAR. 25, 6-8 PM. Students should leave 6-8PM on Wed. open for exams.

18810 SI LEC 001 MW  1-230PM  AUD A AH  Kurdziel

18811 SI LEC 002 MW  1-230PM  AUD A AH  Kurdziel

--LECTURE SECTIONS 002 AND 004 ARE RESERVED FOR HONORS STUDENTS. --HONORS STUDENTS ENROLL IN DISCUSSION SECTION 200 OR 201. --THE FIRST LECTURE WILL BE HELD WEDNESDAY, JAN. 8. --DISCUSSION SECTIONS BEGIN THE WEEK OF JAN.13.

--EVENING MIDTERM EXAMS WILL BE GIVEN ON WEDNESDAYS, JAN. 29, FEB. 26, AND MAR. 25, 6-8 PM. Students should leave 6-8PM on Wed. open for exams.

18946 SI LEC 003 MW  2-3PM  2244 USB  Giffen

---THE FIRST LECTURE WILL BE HELD WEDNESDAY, JAN. 8. --DISCUSSION SECTIONS BEGIN THE WEEK OF JAN.13. --EVENING MIDTERM EXAMS WILL BE GIVEN ON WEDNESDAYS, JAN. 29, FEB. 26, AND MAR. 25, 6-8 PM. Students should leave 6-8PM on Wed. open for exams.

18826 PI W DIS 006 T  230-4PM  2234 USB  Iliff

18814 PI W DIS 007 T  8:30-10AM  2234 USB  Orth

22196 PI W DIS 008 W  8:30-10AM  2234 USB  Nicholas

18949 PI W DIS 009 M  8:30-10AM  4152 USB  Shayka

18815 PI W DIS 010 T  8:30-10AM  4152 USB  Medina

18816 PI W DIS 011 W  8:30-10AM  4152 USB  Mims

U of M Schedule of Classes Page 146 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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.

SECTION 200 IS RESERVED FOR HONORS STUDENTS.

SECTION 201 IS RESERVED FOR HONORS STUDENTS.

Lecture section 003 is reserved for those in Authentic Research Connection (ARC) sections 201, 202, 203 or 204 only.

Lecture section 004 is reserved for those in Authentic Research Connection (ARC) sections 301-304 only. This course requires 1-2 hours of time outside of class per week in which students will come to the lab and complete experiments.

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


CAT# Course Title CR PREREQ LAB FEE
Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR

U of M Schedule of Classes Page 148 of 481 WN 2020 2270 03-05-2020 12:03 22412849
Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.

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

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Labs are closed to adding or swapping after the first lecture meeting. Students should attend the desired section to request an override.
http://sites.lsa.umich.edu/arc/evolution-of-yeast-biology-173/. Enrollment in Lecture Section 004 only. THIS COURSE REQUIRES 1-2 HOURS OF TIME OUTSIDE OF CLASS PER WEEK IN WHICH STUDENTS WILL COME TO THE LAB AND COMPLETE EXPERIMENTS.

29992 PDR LAB 304 TH 2-5PM 3142 USB Xu

EVOLUTION OF YEAST Authentic Research Connection section. Enrollment by application only. Please visit http://sites.lsa.umich.edu/arc/evolution-of-yeast-biology-173/. Enrollment in Lecture Section 004 only. THIS COURSE REQUIRES 1-2 HOURS OF TIME OUTSIDE OF CLASS PER WEEK IN WHICH STUDENTS WILL COME TO THE LAB AND COMPLETE EXPERIMENTS.

200 Undergrad Tutorial
   4.00 ADVISORY

201 Inter Topics in Bio
   PD LEC 001 W 3-6PM 2230 USB Gdanetz MacCready; Schmidt

201 Inter Topics in Bio
   P LEC 001 F 2-3PM ARR

Biostatistics
The Friday 2-3pm session of BIO 201 will meet together with the BIO 173.003 lecture. BIOINFORMATICS USING HUMAN MICROBIOME DATA. Enrollment by application only. Please visit https://sites.lsa.umich.edu/arc/biology-201-bioinformatics/

http://sites.lsa.umich.edu/arc/evolution-of-yeast-biology-173/. Enrollment in Lecture Section 004 only. THIS COURSE REQUIRES 1-2 HOURS OF TIME OUTSIDE OF CLASS PER WEEK IN WHICH STUDENTS WILL COME TO THE LAB AND COMPLETE EXPERIMENTS.

222 Cell&Molec Neurosci
   1.00-3.00 ADVISORY

225 Human & Animal Phys
   2.00 ADVISORY, ENFORCED

--LAB SECTIONS BEGIN THE WEEK OF JANUARY 13.

207 Microbiology
   4.00 ENFORCED 70.00

226 Hum&Animal Phys Lab
   2.00 ADVISORY, ENFORCED 70.00

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# Biophysics Research Division

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Contact ChemicalBiology@umich.edu for registration inquiries.

Section 002 is for Cancer Chemical Biology MS students. Section 001 is for Chemical Biology PhD students.

Contact ChemicalBiology@umich.edu for registration inquiries.

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

105 Changing Atmos
19832 CHEM P LEC 001 TTH 10-1130AM 1528 NUB Flanner

108 Phys World
32357 CHEM Al LEC 001 TTH 1130-1PM 2520 NUB Spica
32359 CHEM PI W REC 002 W 1-2PM 2512 NUB
32361 CHEM PI W REC 003 M 1-2PM 2512 NUB

125 Gen Chem Lab I
126 Gen Chem Lab II

-- YOU MUST ALSO REGISTER FOR CHEM 126, SECTION 100 -- STUDENTS MUST CLAIM THEIR SPACE AT THE FIRST MEETING OF LAB.

105 Changing Atmos
3.00
108 Phys World
4.00 ADVISORY
125 Gen Chem Lab I 1.00 ADVISORY, ENFORCED 100.00

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

126 Gen Chem Lab II
17026 CHEM P RW LEC 100 ARR ARR

-- YOU MUST REGISTER FOR THE SAME LECTURE IN CHEM 125 AND 126.
-- EX CHEM 125 LECTURE 100 ALSO REGISTER FOR CHEM 126 SECTION 100 LECTURE 100.

130 G Chem Invst&R Prin

-- SECTION 100 - STUDENTS MUST ELECT DISCUSSION SECTION 101-150.
11063 CHEM AD LEC 100 MWF 9-10AM 1210 CHEM Castaneda
11064 CHEM AD DIS 110 M 1-2PM 1636 CHEM Ray Chaudhuri
11065 CHEM PD DIS 110 T 1-2PM 1612 CHEM Di Mauro
11066 CHEM PD DIS 121 T 2-3PM 1612 CHEM Di Mauro
11067 CHEM PD DIS 130 W 10-11AM 1628 CHEM Reed
11068 CHEM PD DIS 141 W 12-1PM 1638 CHEM Shim
11070 CHEM PD DIS 140 TH 11-12PM 4152 USB Ray Chaudhuri

-- SECTION 200 - STUDENTS MUST ELECT DISCUSSION SECTION 201-213
11071 CHEM AD DIS 100 MWF 11-12PM 1800 CHEM McCrory
11074 CHEM PD DIS 210 M 9-10AM 1636 CHEM Ray Chaudhuri
17943 CHEM PD DIS 211 M 10-11AM 1636 CHEM Ray Chaudhuri
11081 CHEM PD DIS 212 M 12-1PM 1628 CHEM Shim
16393 CHEM PD DIS 213 W 2-3PM 1632 CHEM Shim
11078 CHEM PD DIS 220 T 10-11AM 1636 CHEM Garza
11077 CHEM PD DIS 221 T 11-12PM 1636 CHEM Garza
11080 CHEM PD DIS 222 T 1-2PM 1632 CHEM Di Mauro

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**211 Invest Chem**  
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--SECTION 200 IS AVAILABLE FOR HONORS CREDIT ONLY. DEPARTMENTAL CONSENT MUST BE GIVEN. STUDENTS IN CHEM 215H-200 MUST ALSO ELECT CHEM 216H-200.

**216 Synth Org**

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CHEM 216, section 200 and 2xx labs available for Honors credit only. Departmental Consent must be given BEFORE registering. Students must also be enrolled in Chem 215-200. Contact chemundergrad@umich.edu with questions.
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11116 S LEC 101 MWF 9-10AM 1060 BSB-TBL Gottfried
19488 P DIS 110 M 10-11AM 1628 CHEM Meadows
19489 P DIS 111 M 11-12PM 3556 DANA Meadows
19490 P DIS 112 M 1-2PM 3230 USB Meadows
11117 P DIS 130 W 10-11AM 1632 CHEM Zhang
11118 P DIS 131 W 11-12PM 1628 CHEM Zhang
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20764 P DIS 140 TH 9-10AM 1636 CHEM Caiati
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21357 P DIS 142 TH 11-12PM 1650 CHEM Roessler
20766 P DIS 143 TH 1-2PM 1628 CHEM Roessler
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241 Intro to Chem Analy
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11121 P W LEC 100 TTH 12-1PM 1200 CHEM Ault

242 Intr Chem Analy Lab
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11122 P W LAB 100 M 1-5PM 2310 CHEM Wang
19942 A REC 102 M 12-1PM 1636 CHEM Pratt
11123 P W LAB 300 TH 1-5PM 2310 CHEM Szot

246 Biomed Chem-Lab I
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247 Biomed Chem Lab II
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261 Intro Quantum Chem
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### Classical Studies Department

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Communication and Media

Communication Studies (COMM)

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

101 The Mass Media

| 11186 | A R LEC 001 | TTH | 1-230PM | AUD B AH | Pearson |
| 11187 | P RW DIS 002 | TTH | 4-5PM | 1110 NQ | Li |
| 11188 | P RW DIS 003 | TH | 5-6PM | 1110 NQ | Li |
| 11189 | P RW DIS 004 | F | 9-10AM | 1110 NQ | Love |
| 11190 | P RW DIS 005 | F | 10-11AM | 1110 NQ | Love |

15 seats reserved for Freshmen

11191 | P RW DIS 006 | F | 12-1PM | 1110 NQ | Love |

5 seats reserved for LSA Honors

11192 | P RW DIS 007 | F | 1-2PM | 1110 NQ | Batiuk |
| 11193 | P RW DIS 008 | F | 3-4PM | 1110 NQ | Batiuk |
| 11194 | P RW DIS 009 | TH | 6-7PM | 1110 NQ | Li |
| 18681 | P RW DIS 011 | F | 10-11AM | 1245 NQ | Batiuk |

11195 | A R LEC 001 | TTH | 8-30AM-10AM | AUD 4 MLB | Campbell |
| 11197 | P RW DIS 003 | F | 11-12PM | 1110 NQ | Dawson-Andoh |
| 11199 | P RW DIS 005 | TH | 6-7PM | 1245 NQ | Dawson-Andoh |
| 11200 | P RW DIS 006 | F | 9-10AM | 1245 NQ | Wang |
| 11201 | P RW DIS 007 | F | 10-11AM | 1436 MH | Wang |

5 seats reserved for LSA Honors

11202 | P RW DIS 008 | F | 12-1PM | 2011 MLB | Dawson-Andoh |
| 11203 | P RW DIS 009 | F | 1-2PM | 1245 NQ | Ploger |
| 32635 | P RW DIS 010 | F | 2-3PM | 1175 NQ | Ploger |
| 34309 | P RW DIS 011 | F | 11-12PM | 2185 NQ | Wang |

159 FYS in Media Issues

24673 | P RW SEM 002 | MW | 4-530PM | 1110 NQ | Collings |

Documentary Journalism

Does not meet Communication Studies major requirements.

First Year Student

251 Media Industries

| 20263 | A LEC 001 | MW | 10-1130AM | LEC RM 2 MLB | Draper |
| 20264 | P RW DIS 002 | F | 2-3PM | 1110 NQ | Meyerend |
| 20265 | P RW DIS 003 | TH | 4-5PM | 1245 NQ | Meyerend |
| 20266 | P RW DIS 004 | TH | 5-6PM | 1245 NQ | Meyerend |

261 Views on the News

| 11204 | A R LEC 001 | MW | 1130-1PM | LEC RM 1 MLB | Pearson |
| 17736 | P RW DIS 002 | T | 3-4PM | 2407 MH | Hawkins |
| 22240 | P RW DIS 003 | T | 4-5PM | 3242 LSA | Hawkins |
| 19852 | P RW DIS 004 | T | 5-6PM | B134 MLB | Hawkins |

290 Public Speaking

| 32488 | A LEC 001 | TTH | 1130-1PM | LEC RM 1 MLB | Moshin |
| 32489 | P RW DIS 002 | F | 10-11AM | 2135 NQ | Ngai |
| 32490 | P RW DIS 003 | F | 11-12PM | 2155 NQ | Ngai |
| 32491 | P RW DIS 004 | F | 2-3PM | 2114 MLB | Menon |
| 32492 | P W DIS 005 | F | 3-4PM | 1245 NQ | Menon |

291 Public Speaking Work

| 32493 | P RW LEC 001 | TH | 230-4PM | 2244 USB | Moshin |

306 Media Topics in HU

| 29570 | A LEC 001 | MW | 1130-1PM | 1120 WEILL | Moshin |

Whitehness and the Media

| 29706 | P RW DIS 002 | T | 9-10AM | 2185 NQ | Hill |
| 29707 | P RW DIS 003 | T | 4-5PM | B116 MLB | Madrigal |
| 29708 | P RW DIS 004 | T | 5-6PM | B137 MLB | Hill |

30202 A LEC 005 | TTH | 10-1130AM | 1230 USB | Yoon |

Covering Presidential Campaign

| 30203 | P RW DIS 006 | TH | 4-5PM | G026 TISCH | Potts |
| 30204 | P RW DIS 007 | TH | 5-6PM | B134 MLB | Potts |
| 30205 | P RW DIS 008 | TH | 6-7PM | B137 MLB | Potts |
| 34014 | A LEC 009 | MW | 230-4PM | G322 DENT | Pearson |

Media and Globalization
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|        | Juniors and Seniors only. Class meets with MKT 407. Students cannot receive credit for both MKT 407 and MKT 411. Communication Studies students should enroll under COMM 317.  
|        | 322 UG Research Prac         |    |        | 1.00-3.00|
|        | 348 Media and the Body        |    |        | 4.00     |
|        | 33852 A LEC 001 MW 230-4PM   |    |        |        |
|        | Media Law&Policy              |    |        | 3.00     |
|        | 342 UG Research Prac         |    |        | 1.00-3.00|
|        | 375 Sports,Media&Culture      |    |        | 4.00     |
|        | 27033 A R LEC 001 TTH 830-10AM|    |        | ENFORCED |
|        | Sports, Law & Society         |    |        | 4.00     |
|        | 27090 P RW DIS 003 T 3-4PM   |    |        |        |
|        | 27091 P RW DIS 004 T 4-5PM   |    |        |        |
|        | 27092 P RW DIS 005 T 5-6PM   |    |        |        |
|        | 27093 P RW DIS 006 T 6-7PM   |    |        |        |
|        | 27094 P RW DIS 007 W 6-7PM   |    |        |        |
|        | 408 Media Effects Topics      |    |        | 3.00     |
|        | 32560 P RW REC 001 MW 10-1130AM|  |    | ADVISORY  |
|        | Sports, Law & Society         |    |        | 3.00     |
|        | 421 Media Law&Policy          |    |        | 3.00     |
|        | 32484 P RW REC 001 MW 1-230PM|    |        | ADVISORY  |
|        | Supreme Court News           |    |        | 3.00     |
|        | 18846 P RW SEM 001 MW 1130-1PM|  |    | ADVISORY  |
|        | ForeignNews Coverage         |    |        | 3.00     |
|        | 18847 P RW SEM 001 TTH 1130-1PM|  |    | ADVISORY  |
|        | 439 Sem Journalism Perf       |    |        | 3.00     |
|        | 16122 P RW SEM 002 TTH 1-230PM|  |    | ADVISORY  |
|        | Campaign Msg: Truman to Trump |    |        | 3.00     |
|        | Media Effects Topics          |    |        | 3.00     |
|        | 442 Indep Research           |    |        | 1.00-4.00|
|        | 452 Senior Thesis            |    |        | ENFORCED |
|        | 466 Digital Politics         |    |        | ADVISORY, ENFORCED |
|        | 490 Capstone Media Topic     |    |        | ADVISORY, ENFORCED |
|        | 491 Media Fandom             |    |        |        |

Students that have completed COMM 416 "Fandom and Digital Culture" are not eligible to enroll and will not receive

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U of M Schedule of Classes Page 164 of 481

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**Music & Mediation in the West**

Capstone reserved for declared Communication Studies seniors only.

**Understand the Platform Societ**

Capstone reserved for declared Communication Studies seniors only.

**Media and Emotion**

Capstone reserved for declared Communication Studies seniors only. No credits granted to students that completed COMM 408.001 "Media and Emotion" FA'19.

**1st Yr Res Project**

Section reserved for Communication Studies Honors students only. Permission of instructor required.

**Media Theory Soc Sci**

Reserved for students with Graduate Standing only.

**Topics in Hum Trad**

Reserved for graduate students only. Meets in the Marsh Lab (NQ 7355).

**Topics Soc Sci Trad**

Reserved for graduate students only.

**Diss-Precand**

Reserved for graduate students only.

**Diss-Cand**

Reserved for graduate students only.
## Comparative Literature Program

### Comparative Literature (COMPLIT)

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Class meets in 2021 Tisch on: March 18, March 25, April 1, April 8, and April 15. Class meets 01/08/2020 to 02/26/2020 in Tisch 2021.
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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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--- A student who misses either the first or second class meeting of an English course may be dropped from the course for non-attendance.
--- All students must take action through the registration system to make sure their official schedule of courses matches the courses they are attending.

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### Earth and Environmental Sciences

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Geology of the Dead Sea Rift
Required international field trip to Jordan and Israel during the Winter-term vacation 2020. Contact Prof. Adam Simon for more information.

346    | Fld Std-Strat&Paleo | P R  | LEC | 001 | TTH | 10-1130AM | 2520 NUB | Simon |       | 1.00-3.00 | ADVISORY |
| 467    | Stratigraphy & Basin | A R | LEC | 001 | TTH | 10-1130AM | 2520 NUB | Smith |       | 4.00 | ADVISORY, ENFORCED |

Field trip class for Spring trip. Destination TBD. Contact Prof. Lohmann for details.
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# Ecology & Evolutionary Biology

## Ecology and Evolutionary Biology (EEB)

--FOR ADDITIONAL COURSES, PLEASE CHECK THE LISTINGS UNDER BIOLOGY AND MCDB (MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY).

### Undergrad Research (300)

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### Primate Evol Ecol (362)

- **I  IND +  ARR ARR**
- **4.00 Advisory**

#### Discussion Sections Begin the Week of January 13.

- **11029 AI  LEC 001 TTH 3-4PM 1200 CHEM Winger**
- **11030 PI  W DIS 002 M 9-11AM 3242 LSA Wacker**
- **11033 PI  W DIS 005 W 9-11AM 4128 LSA Wacker**
- **15885 PI  W DIS 006 W 12-2PM B135 MLB Grunder**
- **15886 PI  W DIS 007 W 3-5PM B115A MLB Grunder**

### Evolution (390)

- **DISCUSSION SECTIONS BEGIN THE WEEK OF JANUARY 13.**

#### Registration will be permitted for graduating seniors in EEB only.

### Advanced Research (400)

- **1.00-3.00 Advisory**

### Advanced Topics (401)

- **3.00 Advisory**

#### Protected & Restoring Lakes

- **29919 PI  W LEC 002 TTH 4-530PM 3163 USB DuBay**

#### Acad & Prof Writing in STEM

- **Acad & Prof Writing in STEM**

The Thursday session of EEB 401.003 will meet with EEB 401.002 in their assigned room.

### EEB Capstone Seminar (410)

- **3.00 Advisory, Enforced**

Registration will be permitted for graduating seniors in EEB only.

### Evol Found of Med (413)

- **3.00 Advisory, Enforced**

#### Ecological Networks

- **3.00 Advisory**

### Microbial Ecology (446)

#### Biol of Mammals

- **120 WH Tucker**

### Ecosystem Ecology (476)

- **1518 NUB Zak, Allgeier**

### Ecol of Fishes (487)

#### Teaching Col Science

- **10-11AM 3163 USB Kurzziel**

### Research Ethics-Bio (499)

- **1.00 Advisory**

The first meeting of MCDB/EEB 499 will be held on January 17, 2020.

### Princ Evolution (516)

#### Investigate Biology

- **2062 PALM Knowles**

#### Advanced Studies

- **1.00-8.00 Advisory**

#### Advanced Studies

- **1.00-8.00 Advisory**

#### Special Studies

- **1.00-16.00 Advisory**

#### Masters Thesis

- **1.00 Advisory**

### Biology Seminar (800)

- **4153 USB Zhang**

### Discussions in EEB

- **Enrollment is for new Program in Biology GSIs only.**

### Diss-Precand (990)

- **1.00 Advisory**

### Diss-Cand (995)

- **1.00-8.00 Advisory**

- **8.00 Advisory**
Economics Department

Economics (ECON)

101 Principles Econ I 4.00 ADVISORY

11226 A LEC 100 MW 10-1130AM 140 LORCH Stevenson

Students will be auto-enrolled in Section 100 when they elect Sections 101-111.

This class has a scheduled evening midterms (2/10 & 3/16 8-10pm). If you will be unavailable to take this exam, you should not register for this section of Econ 101.

11227 P DIS 101 M 1-230PM 173 LORCH Jayanti
11228 P DIS 102 M 1-230PM 373 LORCH Venyige
11229 P DIS 103 M 1-230PM 373 LORCH Kulczycki
11230 P DIS 104 M 1-230PM 142 LORCH Elayan Balague
11231 P DIS 105 M 1-230PM 173 LORCH Wang
11232 P DIS 106 M 1-230PM 373 LORCH Krishnan
11233 P DIS 107 M 1-230PM 299 M 8-10PM ARR
11234 P DIS 108 M 1-230PM 173 LORCH Li

34295 A MID 199 M 8-10PM ARR
A MID 199 M 8-10PM ARR

11235 A LEC 200 MW 1130-1PM 140 LORCH Proulx

Students will be auto-enrolled in section 200 when they elect sections 201-211.

There will be three exams for this course: Wed Feb 12 6-8pm, Wed Mar 18 6-8pm, and the regularly scheduled final Fri Apr 24 4-6pm.

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 overrides will be issued for this class.

11236 P DIS 201 T 830-10AM 373 LORCH Elayan Balague
11237 P DIS 202 T 1-230PM 142 LORCH Kulczycki
11238 P DIS 203 T 1-230PM 373 LORCH Li
11239 P DIS 204 T 1-230PM 15305 NUB Li
11240 P DIS 205 T 1-230PM 269 WEISER Krishnan
11241 P DIS 206 T 230-4PM 373 LORCH Kruskulc
11242 P DIS 207 T 230-4PM 142 LORCH Li
11243 P DIS 208 T 230-4PM 373 LORCH Cui
11244 P DIS 209 T 230-4PM 269 WEISER Krishnan
11245 P DIS 210 T 230-4PM 373 LORCH Cui
11246 P DIS 211 T 230-4PM 269 WEISER Krishnan
34296 A MID 299 W 6-8PM ARR
A MID 299 W 6-8PM ARR

11247 A LEC 300 TH 10-1130AM 140 LORCH Dudley

Students will be auto-enrolled in section 300 when they elect sections 301-311.

11248 P DIS 301 TH 4-530PM 1518 MH Cheng
11249 P DIS 302 TH 4-530PM 1505 NUB Li
11250 P DIS 303 TH 1-230PM 373 LORCH Cui
11251 P DIS 304 TH 1-230PM 269 WEISER Krishnan
11252 P DIS 305 TH 1-230PM 373 LORCH Cui
11253 P DIS 306 TH 1-230PM 1518 MH Cheng
11254 P DIS 307 TH 1-230PM 142 LORCH Cui
11255 P DIS 308 TH 1-230PM 373 LORCH Cui
11256 P DIS 309 TH 1-230PM 1505 NUB Li
11257 P DIS 310 TH 1-230PM 373 LORCH Cui
11860 P DIS 311 TH 1-230PM 142 LORCH Cui
11867 P DIS 312 TH 1-230PM 373 LORCH Cui
11258 A LEC 400 MW 1518 NUB Bart
11259 A LEC 401 F 10-1130AM 1505 NUB Beer
11260 P DIS 402 F 1-230PM 1405 EQ Kosowsky
11261 P DIS 403 F 1-230PM 335 WH Bart
11262 P DIS 404 F 1-230PM 173 LORCH Garud
11263 P DIS 405 F 1-230PM 8856 EQ Garud
34297 A MID 499 T 8-10PM ARR
A MID 499 T 8-10PM ARR
A MID 499 T 8-10PM ARR
22049 A LEC 500 TTH 1-230PM 140 LORCH Caldwell Jr

Students will be auto-enrolled in section 500 when they elect sections 501-511.
There will be three midterms for this course: Tuesday February 18, 8:10 - 9:40 PM; Thursday March 19, 8:10 - 9:40 PM; and Tuesday April 14, 8:10 - 9:40 PM. ALL exams will begin at 8:10 PM and 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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No overrides will be issued for this class.

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25391  P  DIS  502  TH  230-4PM  120 WH   Yang
22052  P  DIS  503  F   1-230PM  1518 NUB  Bimberg
22053  P  DIS  504  F   1-230PM  120 WH   Kosowsky
25389  P  DIS  505  F   230-4PM  1505 NUB  Bimberg
24344  P  DIS  506  F   230-4PM  B856 EQ  Beer
25393  P  DIS  507  TH  4-530PM  1372 EH  Juarez
25390  P  DIS  508  TH  4-530PM  1359 MH  Tino
22051  P  DIS  509  TH  4-530PM  2520 NUB  Yang
25392  P  DIS  510  TH  530-7PM  173 LORCH| Tino
23807  P  DIS  511  TH  530-7PM  142 LORCH| Juarez

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 will be auto-enrolled in section 100 when they elect sections 101-112.

There will be 2 evening exams: 2/12 & 3/18 from 6-8pm.

There will be 2 evening exams: Feb 12 and March 18 from 8-10pm.

There will be 2 evening exams: Feb 12 and March 18 from 8-10pm.

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 will be auto-enrolled in section 200 when they elect sections 201-212.

Students will be auto-enrolled in section 200 when they elect sections 201-212.

This class requires concurrent enrollment in Econ 101. Students must enroll in Econ 101 to elect Econ 108. If at any time Econ 101 is dropped, the student will also be withdrawn from Econ 108.

Personal Finance

Economics at Work
### 258 Topics Data Analysis
- **Class #**: 32564
- **Code**: RW LEC 001
- **Sec**: TTH
- **Days**: 8-10AM
- **Time**: 9-10AM
- **Location**: 142 LORCH
- **CR**: 3.00
- **Prereq**: ENFORCED
- **Instructor**: Foschi

### 310 Money & Banking
- **Class #**: 32054
- **Code**: RW LEC 001
- **Sec**: TTH
- **Days**: 8-10AM
- **Time**: 10-11AM
- **Location**: 140 LORCH
- **CR**: 3.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Dudek

### 320 Survey-Labor Econ
- **Class #**: 24268
- **Code**: RW LEC 001
- **Sec**: MW
- **Days**: 11-12PM
- **Time**: 296 WEISER
- **Location**: 1:00-2:00PM
- **CR**: 3.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Sedo

### 325 Econ of Education
- **Class #**: 32599
- **Code**: RW DIS 002
- **Sec**: F
- **Days**: 9-10AM
- **Time**: 373 LORCH
- **CR**: 3.00
- **Prereq**: ENFORCED
- **Instructor**: Martin

### 326 Economcs Of Crime
- **Class #**: 32600
- **Code**: RW DIS 003
- **Sec**: F
- **Days**: 11-12PM
- **Time**: 1084 EH
- **CR**: 3.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Martin

### 395 Topics in Microecon
- **Class #**: 32057
- **Code**: RW LEC 001
- **Sec**: MW
- **Days**: 8-10AM
- **Time**: 1420 CHEM
- **CR**: 1.50
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Bartelme

### 401 Intermed Micro Thry
- **Class #**: 11277
- **Code**: A R LEC 001
- **Sec**: MW
- **Days**: 1-230PM
- **Time**: 1400 CHEM
- **CR**: 4.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Zamzow

### 402 Intermed Macro Thry
- **Class #**: 11283
- **Code**: A R LEC 001
- **Sec**: MW
- **Days**: 12-1PM
- **Time**: 1449 MH
- **CR**: 4.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Cravino

### 409 Game Theory
- **Class #**: 19841
- **Code**: P RW DIS 002
- **Sec**: F
- **Days**: 10-11AM
- **Time**: 2024 DANA
- **CR**: 4.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Lam

### 412 Topics in Macroecon
- **Class #**: 23061
- **Code**: P RW LEC 001
- **Sec**: TTH
- **Days**: 8-10AM
- **Time**: 1449 MH
- **CR**: 3.00
- **Prereq**: ENFORCED
- **Instructor**: Blanco

### 421 Labor Economics I
- **Class #**: 24287
- **Code**: P RW LEC 001
- **Sec**: TTH
- **Days**: 4-5PM
- **Time**: B844 EH
- **CR**: 4.00
- **Prereq**: ENFORCED
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### 432 Gov Reg of Industry
- **Class #**: 32872
- **Code**: P RW DIS 001
- **Sec**: MW
- **Days**: 12-1PM
- **Time**: 1200 SEB
- **CR**: 4.00
- **Prereq**: ENFORCED
- **Instructor**: Brown

### 435 Financial Econ
- **Class #**: 32062
- **Code**: A R LEC 001
- **Sec**: TH
- **Days**: 3-4PM
- **Time**: 1120 WEILL
- **CR**: 4.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Ottonello

### Students
- **Class #**: 11277
- **Code**: A R LEC 001
- **Sec**: MW
- **Days**: 1-230PM
- **Time**: 2024 DANA
- **CR**: 3.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Zamzow

- **Class #**: 409 Game Theory
- **Code**: P RW DIS 002
- **Sec**: F
- **Days**: 10-11AM
- **Time**: 2024 DANA
- **CR**: 4.00
- **Prereq**: ADVISORY, ENFORCED
- **Instructor**: Lam

- **Class #**: 412 Topics in Macroecon
- **Code**: P RW LEC 001
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- **Days**: 8-10AM
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- **CR**: 4.00
- **Prereq**: ENFORCED
- **Instructor**: Brown

- **Class #**: 435 Financial Econ
- **Code**: P RW DIS 001
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Students will be auto-enrolled in section 001 when they elect section 002-003.

Students must apply for enrollment. Application available on Econ Dept website.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The extraction of minerals used to manufacture automobile components, including electric vehicle
batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv 3.00 ADVISORY
31863 PD LAB 005 W 315-415PM 1225 JEFFRIES Bagley, Shaefler, Carr
741 Interdisc Prob Solv 3.00 ADVISORY
P LAB 005 W 430-630PM 1225 JEFFRIES

Challenges Deliver Mi Soc Svcs
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The federal government funds many crucial social services for the poor. However, individual states -- which are rarely the focus of policy debates about social services -- are usually responsible for overseeing the provision of those services. This course will focus on emerging challenges to the delivery of social services in Michigan, including Medicaid, food stamps, and TANF. Working closely with officials from the Michigan Department of Health and Human Services, students will devise potential solutions to problems with the administration of state benefits for vulnerable populations.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.
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## Film, Television, and Media

### Film, Television, and Media (FTVM)

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### Writing TV Sketch Comedy

- **Writing TV Sketch Comedy**
- **Active Viewing: Bad Movies**
- **Writing TV I: Spec**

### Film: Post New Wave

- **Film: Post New Wave**
- **God as a Plot Device**

### Centennial of Korean Cinema

- **Centennial of Korean Cinema**
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# Germanic Languages & Lit Dept

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Scandinavian (SCAND)
History Department

History (HISTORY)

-- 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.

-- ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION PROCESS TO MAKE SURE THAT THEIR OFFICIAL COURSE SCHEDULES MATCH THE COURSES THEY ARE ATTENDING.

-- SURVEY AND INTRODUCTORY COURSES ARE FOR FRESHMEN AND SOPHOMORES.

-- SURVEY COURSES REQUIRE BOTH LECTURE AND DISCUSSION SECTIONS. DISCUSSION SECTIONS DO NOT MEET UNTIL AFTER FIRST LECTURE.

--- 102 History of Present 4.00
31490 A LEC 001 TTH 10-1130AM 1427 MH Kivelson, Spector
31491 P W DIS 002 TH 12-1PM 2436 MH Saad
31492 P W DIS 003 TH 1-2PM 2437 MH Saad
31494 P W DIS 005 F 12-1PM 2436 MH Saad

--- 195 Writing of History 4.00
18647 P RW REC 001 MW 830-10AM G463 MH Bowman

--- 196 First Yr SS Seminar 3.00 ADVISORY
28483 P RW SEM 001 MW 1130-1PM 2448 MH Sinha

--- The Roman Family
31488 P RW SEM 002 T 3-6PM 171 LORCH Marwil

--- Holocaust Documentary Films
31489 P RW SEM 003 TTH 5-7PM G449 MH Mills

--- Journeys and Stories
34161 P RW SEM 004 MW 1130-1PM 1460 MH Spector

--- Central European Cities
201 Rome 4.00
26850 A LEC 001 TTH 230-4PM AUD B AH Freidin
26851 P W DIS 002 T 4-5PM 2449 MH Goggin
26852 P W DIS 003 T 4-5PM 3302 MH Crocker
26853 P W DIS 004 W 10-11AM G026 TISCH Crocker
26855 P W DIS 006 W 12-1PM 2437 MH Crocker
31512 P W DIS 007 W 9-10AM 1436 MH Goggin

--- 202 Doing History 3.00
All sections of History 202 are reserved for History Majors. Please email Sheila (sheilaw) for seat availability.

--- 203 Intr Jpn Civilizatn 3.00

--- 205 Modern East Asia 4.00
11462 A LEC 001 MW 10-1130AM LEC RM 1 MLB Cassel
11463 P W DIS 002 W 12-1PM 2412 MLB Zhang
11464 P W DIS 003 W 1-2PM 2402 MLB Zhang
11465 P W DIS 004 W 3-4PM 3460 MH Luo
31515 P W DIS 005 W 4-5PM 1401 MH Luo

--- 216 World War I 4.00
31516 AI LEC 001 TTH 230-4PM G127 AH Gaggio
31517 PI W DIS 002 TH 4-5PM 4211 AH Shahoolari
31518 PI W DIS 003 F 11-12PM 1359 MH Shahoolari
31519 PI W DIS 004 F 12-1PM 3333 MH Shahoolari

--- 228 Commu & Capit E Eur 4.00
25746 A LEC 001 TTH 1130-1PM 210 WH Fehtahery
25751 PI DIS 002 TH 3-4PM 238A WH Bagic, Fehtahery
25756 PI DIS 003 TH 4-5PM 238A WH Bagic, Fehtahery
25761 PI DIS 004 F 10-11AM 1507 NUB Deoanca, Fehtahery
25766 PI DIS 005 F 11-12PM 1024 DANA Deoanca, Fehtahery

--- 229 Intro Hist Anthro 3.00
17012 PI LEC 001 MW 1-230PM 210 WH Frey

--- 230 Topics in History/HU 4.00
31521 PI W LEC 001 TTH 1-230PM B103 MLB Akiboh

--- The U.S. & the Pacific World
31522 PI LEC 002 TTH 1130-1PM G127 AH Langland, Clague

--- Engaging Performance
27703 A LEC 003 TH 10-1130AM 2022 STB Pinsker
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### Spanish Language Section

Section 004: Spanish-only section. Students interested in taking UC 390.001 for one additional credit should speak with the GSI. Overrides for UC 390 will be issued after classes begin.

### Environmental Activism at UM

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This course will meet in intervals, usually every two or three weeks (pending writing schedules). Interested students must contact the instructor (jwcook@umich.edu) for scheduled meeting information and permission to register.
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
31508 P RW SEM 001 MW 230-4PM G026 TISCH Timmermann
27142 PIRW SEM 002 TTH 10-1130AM 2333 MH Calvo-Quiros

208 Intro African Art 4.00
32320 S LEC 001 TTH 10-1130AM AUD D AH Miller, Nwafor
32321 P W DIS 002 TH 12-1PM 130 TAP Khandelwal
32322 P W DIS 003 TH 3-4PM 130 TAP Harvey
32323 P W DIS 004 TH 4-5PM 130 TAP Harvey
32324 P W DIS 005 F 10-11AM 180 TAP Khandelwal
32325 P W DIS 006 F 11-12PM 180 TAP Khandelwal
32326 P W DIS 007 F 12-1PM 180 TAP Harvey

210 Hist of Photography 4.00
28820 S LEC 001 MW 10-1130AM AUD D AH Biro
28821 P W DIS 002 W 12-1PM G026 TISCH Wheat
28822 P W DIS 003 W 1-2PM G026 TISCH Pounds
28823 P W DIS 004 W 4-5PM G026 TISCH Wheat
28824 P W DIS 005 TH 10-11AM G026 TISCH Pounds
28826 P W DIS 007 F 11-12PM G026 TISCH Pounds

212 Understand Arch 3.00
33213 A LEC 001 MW 9-10AM 1448 MH Trandafirescu
33214 P W REC 002 TH 9-10AM 2024 DANA Owolabi, Trandafirescu
33215 P W REC 003 F 9-10AM 2520 NUB Nair, Trandafirescu
33216 P W REC 004 F 10-11AM 1028 DANA Pekar, Trandafirescu

221 Intro Gk Arch 4.00
27260 A LEC 001 TTH 10-1130AM UMMA AUD Nevett
27261 P W DIS 002 T 12-1PM 130 TAP Nash
27262 P W DIS 003 W 1-2PM 2163 AH Nash
27263 P W DIS 004 TH 9-10AM 2271 AH Nash
27264 P W DIS 005 W 11-12PM 2163 AH Prosser
27265 P W DIS 006 W 4-5PM 130 TAP Prosser

272 Modern Art 4.00
11486 S LEC 001 TTH 1130-1PM AUD D AH Ward
23962 P W DIS 002 TH 1-2PM 130 TAP Denison
23963 P W DIS 003 TH 2-3PM 130 TAP Denison
22187 P W DIS 004 F 10-11AM 130 TAP Volk
27144 P W DIS 005 F 11-12PM 130 TAP Volk
36983 P W DIS 006 F 2-3PM 130 TAP Volk

294 Special Topics 3.00
32406 P W LEC 001 MW 1130-1PM 180 TAP Barham

299 Experiential Study 1.00-3.00 ADVISORY
342 Reason/Passion 18thC 3.00
20623 P LEC 001 MW 1-230PM 049 UMMA Willette

345 Medieval Arch 3.00
23027 P W LEC 001 TTH 1130-1PM 180 TAP Timmermann

351 Michelangelo 3.00
21009 P W SEM 001 TTH 4-530PM 049 UMMA Willette

355 MiraculousDiabolical 3.00
28829 P W LEC 001 TTH 1-230PM 180 TAP Holmes

358 Destruction of Art 3.00
3246 P W SEM 001 TTH 4-530PM 210 TAP Holmes

370 RealismImpressionism 4.00
27671 S W LEC 001 TTH 4-530PM G127 AH Lay
29868 P W DIS 002 W 11-12PM G026 TISCH Eichengreen
29869 P W DIS 003 W 10-11AM 130 TAP Eichengreen
29870 P W DIS 004 TH 11-12PM 130 TAP Eichengreen

371 Weimar Culture 3.00
31837 P W SEM 001 MW 1-230PM 210 TAP Biro

382 Egyptian Arch 4.00
32640 A LEC 001 TTH 1-230PM LEC RM 1 MLB Richards
32642 P W DIS 002 F 11-12PM 1448 MH Difabio
32644 P W DIS 003 F 12-1PM 2407 MH Difabio
32646 P W DIS 004 F 2-3PM 1185 NQ Difabio

383 Modn Multi-Ethnc Art 4.00
28831 S LEC 001 MW 230-4PM 180 TAP Kee
31509 P W DIS 002 TH 12-1PM G026 TISCH Praepipatmongkol
31510 P W DIS 003 TH 10-11AM G026 TISCH Praepipatmongkol

392 Contemp Japanese Art 4.00
29016 S LEC 001 MW 1130-1PM 1060 BSB-TBL Carr
29017 P W DIS 002 M 1-2PM 130 TAP Dine
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**Notes:**
- Students are auto-enrolled in lecture 001 when they elect one of discussions 002-009.
- Stephen Webb book-No cost access to this book is provided by the University of Michigan Library at:
  - https://link-springer-com.proxy.lib.umich.edu/book/10.1007/978-3-319-13236-5?no-access=true
- Students are auto-enrolled in lecture 001 when they elect one of discussions 002-009.
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Humanities Institute

Institute For The Humanities (INSTHUM)

311  Topics Interdis Stu  1.00

30260  P  W  SEM 001  W  4-6PM  ARR  Krugliak

Provocations & Other Acts
This mini-course will be offered on Wednesdays, 4-6 PM, 1/8-2/19.

30308  P  W  SEM 002  T  2-4PM  2228 SEB  Aniskiewicz

Hip-Hop in E Eur&Russia
This mini-course will be offered on Tuesdays, 2-4 PM, 3/10-4/21.

33713  P  W  SEM 003  M  2-4PM  7603 HH  McDougall

Saints & Sinners
This mini-course will be offered on Mondays, 2-4 PM, 1/13-3/9.
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U of M Schedule of Classes Page 209 of 481
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Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.
LSA First Year Seminars

Applied Liberal Arts (ALA)

101 Guide - Liberal Arts
  25405 P R LEC 001 M 6-7PM 2462 MH Hoffman
  30200 P R LEC 002 W 5-7PM 2062 PALM Hoffman

105 Digital Research
  19843 P RW LAB 001 ARR ARR

This section taught entirely online.

19844 P RW LAB 002 ARR ARR Peters

This section taught entirely online.

108 STEM Success
  22476 P R SEM 001 M 2-4PM 113 MOJO Turman
   This class will meet every other Monday, starting January 13th.
  22477 P R SEM 002 T 11-1PM 113 MOJO Turman
   This class will meet every other Tuesday, starting January 14th.

109 Hlth & Hlth Care II
  16254 P R LAB 001 T 4-5PM 1060 BSB-TBL Eickmeyer
   Enrollment restricted to participants in HSSP.
  17043 A RW LEC 002 TH 4-5PM AUD D AH Eickmeyer

115 Finance Savvy Student
  25229 P RW LEC 001 TH 4-5PM 2234 USB Bhaumik
  25058 P RW LEC 002 W 4-5PM 3096 EH Mank

118 Prog, Info & People
  22867 A LEC 001 TH 2-3PM G005 DENT Oney, Augustaitis, Zhao, Martell, Jiang
  27364 P W DIS 002 MW 8-9AM 1265 NYQ Oney, Panedy
  27464 P W DIS 003 MW 9-10AM 1265 NYQ Oney, Augustaitis
  23133 P W DIS 004 MW 10-11AM 2011 MLB Oney, Martell
  22884 P W DIS 005 MW 11-12AM 706 BMT Oney, Zhao
  23425 P W DIS 006 MW 12-1PM 2245 NYQ Oney, Panedy
  27363 P W DIS 007 MW 1-2PM 706 BMT Oney, Martell
  22869 P W DIS 008 TH 10-11AM 706 BMT Oney, Augustaitis
  23687 P W DIS 009 MW 4-5PM 2255 NYQ Oney, Jiang
  37889 P DIS 010 MW 11-12AM 2185 NYQ Oney, Jiang

122 Intrgrp Dialogue
  18798 PI SEM 001 W 2-3PM 230-530PM 170 WEISER Hicks
  18799 PI SEM 001 W 3-5PM ARR

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 Susmether Baidya (e-mail: sbaidya@umich.edu).

125 Internship Success
  25057 P W SEM 001 M 5-7PM 1280 LSA Silbert
  25129 P W SEM 002 TH 5-7PM 1280 LSA Silbert

171 Make the Most of UM
  33940 P R SEM 001 T 7-9PM ARR Gurin
   This class will meet in East Quad, room B852.
  25429 P R SEM 002 T 7-9PM ARR Gurin
   This class will meet in South Quad, Game Room.
  33941 P R SEM 003 T 7-9PM ARR Gurin
   This class will meet in West Quad, G023.
  33942 P R SEM 004 T 7-9PM ARR Gurin
   This class will meet in Alice Lloyd, Room 2060
  25430 P R SEM 005 W 1-3PM ARR Gurin
   This class will meet in West Quad, G027
  25431 P R SEM 006 W 6-8PM ARR Gurin
   This class will meet in Baits II, Coman lounge
  33943 P R SEM 007 W 6-8PM ARR Gurin
   This class will meet in Bursley, McGraham-Siwik lounge
  25432 P R SEM 008 W 1-3PM ARR Gurin
   This class will meet in Alice Lloyd, Living room
  25433 P R SEM 009 W 1-3PM ARR Gurin
   This class will meet in West Quad, G027.
  25434 P R SEM 010 TH 1-3PM ARR Gurin
   This class will meet in Newberry, Audre Lorde lounge.
  33944 P R SEM 011 TH 5-7PM ARR Gurin
  25435 P R SEM 012 TH 5-7PM ARR Gurin
   This class will meet in Markley, Sharanpini lounge
  25436 P R SEM 013 TH 5-7PM ARR Gurin
   This class will meet in Couzens, Room 1417
  33945 P R SEM 014 TH 5-7PM ARR Gurin
   This class will meet in East Quad, B834
  25823 P R SEM 015 TH 5-7PM ARR Gurin
   This class will meet in West Quad, G023
This class will meet 6-9 pm the following dates (room TBD):

- Friday, January 17
- Friday-Sunday, January 24-26*
- Friday, February 7
- Friday, February 21
- Friday, March 13
- Friday, March 27
- Friday, April 3

*On the weekend of January 24-26 Rising Peer Facilitators will attend a mandatory overnight retreat at an off campus location.

This class will meet in 0210 at University Health Service.

For information, please go to the following site:
https://sites.google.com/umich.edu/stem-comm/home
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Spanish Language Section
LSA II: Chinese Studies

Chinese Studies (CCS)

591 Ind St Chinese St 1.00-3.00 ADVISORY
SI IND + ARR ARR

799 MA Fin Proj Chin Std 1.00-3.00 ADVISORY
I IND + ARR ARR

This is the MA thesis writing course for MA students in Chinese Studies. Student should contact a faculty member to act as thesis advisor. Then email mbartolo@umich.edu for permission to register.
### LSA II: Islamic Studies Program

**Islamic Studies (ISLAM)**

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LSA II: Latin American and Caribbean Studies

Latin American And Caribbean Studies (LACS)

321  SS LACS Topics
     25313 P W LEC 001 W 230-530PM 355 WEISER 3.00 Tsai
     Globalization in South America

425  Field Study
     32647 I IND + ARR ARR 1.00-4.00

446  Comparative Ling
     462  Elem Nahuatl II
     25194 P RW REC 001 TTH 3-5PM ARR Tsai
     Class will be held in the Language Resource Center in North Quad.

464  Inter Nahuatl II
     25195 P RW REC 001 TTH 3-5PM ARR Tsai
     Class will be held in the Language Resource Center in North Quad.

466  Adv Nahuatl II
     25196 PIR REC 001 ARR ARR 4.00 ENFORCED
     Class will be held in the Language Resource Center in North Quad.

472  Elem Quechua I I
     474  Interm Quechua I I
     21393 P RW REC 001 TTH 9-11AM 2108 MLB Carlos Rios 4.00 ENFORCED
     11534 P RW REC 001 MW 10-12PM 242 WH Carlos Rios 4.00 ENFORCED
     476  Adv Quechua I I
     11535 P R REC 001 MW 3-5PM B804 EQ Carlos Rios 4.00 ENFORCED

490  LACS Mini-Course
     31714 P LEC 001 W 12-2PM 1508 NUB Fila 1.00
     Portuguese for the Professions
     Please note this class meets from March 9, 2020 through April 21, 2020. Winter 2020: This course counts toward the Portuguese minor requirements.

499  Independent Study
     499  SD IND + ARR ARR 1.00-3.00
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LSA II: Nam Center Korean Studies Program

Korean Studies (KRSTD)

Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR
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29046 PD SEM 001 T 530-7PM 110 WEISER-TBL Walsh
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U of M Schedule of Classes Page 222 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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**LSA II: South Asian Studies**

South Asian Studies (SAS)

- **698** South Asia Indep Study: 1.00-3.00 ENFORCED
- **798** South Asia MA Essay: 1.00-6.00 ADVISORY
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LSA II: Prog in Internat'l & Comparative Studies

International Studies (INTLSTD)

101 Int to Intnl Studies 3.00
19836 A LEC 001 TTH 10-1130AM AUD A AH Marcum

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

19881 P W DIS 002 TH 4-530PM 355 WEISER Noray

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

19882 P RW DIS 003 TH 10-1130AM 455 WEISER Marcum

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

19884 P W DIS 005 F 1-230PM 355 WEISER Cannon

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20356 P W DIS 007 F 4-530PM 355 WEISER Thuringer

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20357 P W DIS 008 F 830-10AM 355 WEISER Noray

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20794 P W DIS 009 F 1130-1PM 455 WEISER Cannon

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20795 P W DIS 010 TH 430-6PM 455 WEISER Brennen

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20851 P W DIS 011 TH 830-10AM 455 WEISER Cannon

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

20852 P W DIS 012 F 10-1130AM 455 WEISER Brennen

Introduction to Intnl Studies

Please note that the discussion sections for this class will meet approximately 8 times during the Winter 2020 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Winter 2020 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

301 Topics Int'l Studies 4.00 ADVISORY
21230 A R LEC 001 MW 1-230PM 1202 SEB Tanielian

Human Rights: Hist & Practice

22188 P RW DIS 002 T 9-10AM 355 WEISER Johnson, Tanielian

Human Rights: Hist & Practice

22189 P RW DIS 003 W 9-10AM 355 WEISER Harrison, Tanielian

Human Rights: Hist & Practice

22190 P RW DIS 004 F 12-1PM 355 WEISER Johnson, Tanielian

Human Rights: Hist & Practice

22191 P RW DIS 005 W 3-4PM 455 WEISER Harrison, Tanielian

Human Rights: Hist & Practice

22192 P RW DIS 006 TH 12-1PM 455 WEISER Harrison, Tanielian

Human Rights: Hist & Practice

22272 P RW DIS 007 T 3-4PM 455 WEISER Johnson, Tanielian
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Human Rights: Hist & Practice

Indigenous v Global S. America

PolTerror:StateRepres HumRight

No credit given to students who completed INTLSTD 401/POLSCI 489: Political Terror: State Repression of Human Rights.

Globalization and Global India

National Period Latin America

National Period Latin America

National Period Latin America

Section 010: Spanish-only section. Students interested in taking UC 390.001 for one additional credit should speak with the GSI. Overrides for UC 390 will be issued after classes begin.

391 | Directed Studies                     | 1.00 | ADVISORY | ENFORCED |
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Sexual Violence and War

Consequences of Contention

Hist of Med,Disease&Body

Sex & Gender in Intl' HR Law

Authoritarian Backsliding

Human Rights

Women&War: Contemp&Hist Persp

Data Science Intl Studies

Democratic Erosion

Violence and the Other

Circulating Worlds

470 | INTLSTD Spec Topics                  | 3.00 | ADVISORY | ENFORCED |
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Central Asia Today

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Democratic Erosion

Violence and the Other

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# Department of Linguistics

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#### Macromolecular Science (MACROMOL)

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Mathematics Department
Mathematics (MATH)

---MATH DEPARTMENT POLICY REQUIRES THAT STUDENTS ATTEND BOTH OF THE FIRST TWO CLASS MEETINGS (OR NOTIFY THE INSTRUCTOR IN ADVANCE OF THEIR ABSENCE) OR THEY MAY BE DROPPED FROM THE CLASS.
---ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION SYSTEM TO MAKE SURE THAT THEIR OFFICIAL SCHEDULE OF COURSES MACHES THE COURSES THEY ARE ATTENDING.
---MATH DEPARTMENT POLICY LIMITS STUDENTS TO A MAXIMUM OF 4 CREDITS FOR COURSES NUMBERED BELOW 112.

105 Data,Fncns,Graphs 4.00
25218 P LEC 005 MWTH 830-10AM 2333 MH Lahn
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
11564 P LEC 022 MTTH 1130-1PM 2347 MH Dong
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
29745 P LEC 042 MTTH 10-1130AM 2347 MH Bennett
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
25219 P LEC 052 MTTH 4-530PM 2325 MH Cardin
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
19900 PDR LEC 170 MWF 830-11AM 2353 MH Keiser
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115 Calculus I 4.00 ADVISORY
11565 P R LEC 001 MWF 830-10AM 2325 MH Maennel
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23704 P LEC 002 MTTH 830-10AM 2449 MH Gordon
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
11571 P LEC 003 T 830-10AM 2325 MH Ganapathy
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34199 P MID 199 T 8-8PM ARR
A MID 199 T 8-8PM ARR
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11569 P LEC 021 MWF 10-1130AM 2325 MH Bhattacharyya
Evening Exams TBA, Avoid scheduling classes that conflict with these times.
22369 P LEC 023 T 10-1130AM 2325 MH Weiss
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22368 P LEC 024 TF 10-1130AM 2455 MH Jiang
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25237 P LEC 011 MWF 830-10AM 2449 MH D'Souza
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25238 P LEC 034 TTH 10-1130AM 2333 MH Kraisler
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11572 P LEC 041 MWF 1130-1PM 2325 MH Yilmaz

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11581 P LEC 045 MWTH 1130-1PM 2455 MH Wolf

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24086 P LEC 047 MTTH 1130-1PM 2437 MH Le

Evening Exams TBA
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11575 P R LEC 061 MWF 1-230PM 2325 MH Mayer

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11579 P LEC 063 T 1-230PM 2325 MH Neville

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24085 P LEC 064 TF 1-230PM 2455 MH Olson

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17581 P LEC 065 MWTH 1-230PM 2455 MH Li

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25240 P LEC 067 MTTH 1-230PM 3314 MH Bolles

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19033 P LEC 070 MWTH 1-230PM 2436 MH Wang

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27939 P LEC 081 WF 230-4PM 3427 MH Silverman

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24083 P LEC 082 MTTH 230-4PM 2449 MH Sun

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11567 P LEC 083 WF 230-4PM 2449 MH Hong

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11580 P LEC 084 TF 230-4PM 2455 MH Venkatesh

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11570 P LEC 085 MWTH 230-4PM 2455 MH Zhao

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25241 P LEC 086 MWF 230-4PM 2427 MH Irmak

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29770 P LEC 090 MWTH 4-530PM 2436 MH Jiang

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24089 P LEC 099 MTH 6-8PM 2325 MH Brosowsky

Evening Exams TBA
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11573 P R LEC 100 MWTH 4-530PM 2455 MH Guo

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U of M Schedule of Classes Page 233 of 481 WN 2020 2270 03-05-2020 12:03 22412849
Avoid scheduling classes that conflict with these times.

### Evening Exams TBA
- **Avoid scheduling classes that conflict with these times.**
  - **24097** P  LEC 005  MWF  830-10AM  3302 MH Khan
  - **Evening Exams TBA**
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      - **11599** P  LEC 006  MWF  830-10AM  2347 MH Knitter
  - **Evening Exams TBA**
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      - **25231** P  LEC 007  MTTH  830-10AM  3451 MH Martinez Servellon
  - **Evening Exams TBA**
    - **Avoid scheduling classes that conflict with these times.**
      - **11595** P  LEC 008  T  830-10AM  3411 MH Ruan
        - **P  LEC 008  WF  830-10AM  3451 MH**
  - **Evening Exams TBA**
    - **Avoid scheduling classes that conflict with these times.**
      - **24312** P  LEC 011  MWF  830-10AM  3448 MH Mukundan
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      - **11597** P  LEC 016  MWF  830-10AM  3356 MH Maass
  - **Evening Exams TBA**
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      - **11589** P  LEC 021  MWF  10-1130AM  3411 MH Mueller
  - **Evening Exams TBA**
    - **Avoid scheduling classes that conflict with these times.**
      - **11595** P  LEC 023  T  10-1130AM  3411 MH Nguyen
      - **P  LEC 023  WF  10-1130AM  3427 MH**
  - **Evening Exams TBA**
    - **Avoid scheduling classes that conflict with these times.**
      - **24091** P  LEC 024  TTHF  10-1130AM  2436 MH Tsouvalas
  - **Evening Exams TBA**
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      - **23099** P  LEC 025  MWF  10-1130AM  3302 MH Boland
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      - **11591** P  LEC 026  MWF  10-1130AM  3356 MH Peterson
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      - **25232** P  LEC 029  TTHF  10-1130AM  3451 MH Stith
        - **P  LEC 029  F  10-1130AM  3460 MH**
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      - **24091** P  LEC 041  MWF  1130-1PM  2427 MH Pande
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      - **23101** P  LEC 042  MTTH  1130-1PM  3427 MH Sund
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      - **11590** P  LEC 043  T  1130-1PM  3411 MH Wawrykow
        - **P  LEC 043  WF  1130-1PM  3427 MH**
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      - **25233** P  LEC 044  TTH  1130-1PM  3451 MH Kubena
        - **P  LEC 044  F  1130-1PM  3460 MH**
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      - **23102** P  LEC 045  MWF  1130-1PM  3302 MH Boland
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      - **11596** P  LEC 046  MWF  1130-1PM  3356 MH Peterson
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      - **25236** P  LEC 050  MWF  1130-1PM  2333 MH Siddiqi
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      - **24091** P  LEC 061  MWF  1-230PM  2427 MH Carlisle
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      - **23103** P  LEC 062  MTTH  1-230PM  3427 MH Wu
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      - **24095** P  LEC 064  TH  1-230PM  2427 MH Mondal
        - **P  LEC 064  TF  1-230PM  3302 MH**
  - **Evening Exams TBA**
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      - **24090** P  LEC 065  MWF  1-230PM  3302 MH Ginesberg
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      - **24098** P  LEC 068  TWF  1-230PM  2437 MH Shelah
  - **Evening Exams TBA**
    - **Avoid scheduling classes that conflict with these times.**
      - **25234** P  LEC 069  TTH  1-230PM  3451 MH Kubena
Evening Exams TBA
Avoid scheduling classes that conflict with these times
23100 PD  LEC 084 TF 230-4PM 3302 MH Arakelian
24092 P  LEC 085 MWTH 230-4PM 3302 MH Chen
25235 P  LEC 090 MWTH 230-4PM 2333 MH Han

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
11601 P R  LEC 099 TTH 6-8PM 2449 MH Song
24093 P  LEC 100 MWTH 4-530PM 3427 MH Vassilev
25746 P  LEC 102 MTTH 4-530PM 3314 MH Riley

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
11602 PDR  LEC 171 MTWTH 5-7PM 1096 EH Lofton
25312 PDR  LEC 172 MWF 1-3PM 1096 EH Farokhrani
27432 PDR  LEC 173 MWF 3-5PM 1096 EH Farokhrani

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
16573 PDR  LEC 170 MWF 9-11AM 4-11PM 1096 EH Lofton
19894 P  W  LEC 001 MTWTH 11-12PM 3460 MH Weigandt

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
18327 PDR  LEC 001 MW 3-5PM 2135 NQ Conger
19527 PDR  LEC 002 TTH 1-3PM 2155 NQ Conger

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
147 Interest Theory
19527 PDR  LEC 002 TTH 3-5PM 2155 NQ Conger

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Evening Exams TBA
Avoid scheduling classes that conflict with these times
146 Houghton Calc Wkp II
18327 PDR  LEC 001 MW 3-5PM 2135 NQ Conger

This course meets in north quad
19527 PDR  LEC 002 TTH 1-3PM 2155 NQ Conger

This course meets in north quad

Please note the restricted seats. For information about overrides, please contact the staff in IOE at widobber@umich.edu.
Avoid scheduling classes that conflict with these times.

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**217 Linear Algebra**

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21670 P W LEC 006 MWF 1130-1PM B737 EH

Avoid scheduling classes that conflict with these times
24099 P W LEC 007 MWF 1-230PM B735 EH

Avoid scheduling classes that conflict with these times
24100 P W LEC 008 MWF 1-230PM B737 EH

Avoid scheduling classes that conflict with these times
24101 P W LEC 009 MWF 230-4PM B735 EH

Avoid scheduling classes that conflict with these times
24102 P W LEC 010 MWF 10-1130AM B735 EH

Avoid scheduling classes that conflict with these times
25175 P W LEC 011 MWF 1-230PM B743 EH

Avoid scheduling classes that conflict with these times
27696 P W LEC 012 MWF 2-3PM B735 EH

Avoid scheduling classes that conflict with these times
285 Honor Multiv & Vector
25097 P W LEC 002 MWF 8-10AM 2437 MH Guo

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
11660 P RW LEC 001 MWF 10-11AM 4153 USB Barannyk

Students wishing to take this course should add themselves to the waitlist. Completion of 285 or permission of honors advisor/instructor required.

289 Problem Seminar
25463 P W SEM 001 W 4-5PM 1866 EH Derksen

296 Honors Math II
11661 P W LEC 001 MWF 230-4PM 3401 MH Koch

Students in Math 295 (Fall term) should add to the wait list in order to receive an override. Others require permission of an Honors advisor.

297 Intro to Analysis
27541 P RW LEC 001 MWF 1:20-3PM 3866 EH Schneider

Students interested in taking this course should add themselves to the waitlist and email the instructor to discuss enrollment possibilities. Students will be expected to have done extremely well in Math 217.

310 Chance and Choice
19545 P W LEC 001 MW 1-2PM 4096 EH Dunworth

Explorations in Randomness
Prerequisites- Sophomore standing and one previous university math course.
Permission through wait list only. Students are welcome to email the instructor directly to demonstrate interest in the course.

316 Differential Equations
20062 P RW LEC 001 MWF 1-2PM 3300 MH Silverman
11662 P RW LEC 002 MWF 2-3PM 1650 CHEM Cianci
30839 P RW LEC 003 MWF 3-4PM 1427 MH Cianci

333 Directed Tutoring
11663 PI LEC 001 ARR ARR

351 Princ of Analysis
16588 PD W LEC 001 MW 1-230PM B745 EH Page

Math 351 is for Sophomores and Juniors with Math 215 and 217. For permission, please add your name to the wait list and email the instructor indicating your interest in the course, include a list of math classes you've taken thus far.

354 Fourier Analy & Appl
25157 P W LEC 001 MWF 10-11AM 4096 EH Bellis

To register for this course, please place yourself waiting list. Capacity is limited and instructor permission is required. Reasonable familiarity with proofs shown by good performance at level of Math 217 or Math 295 is
Students may contact the instructor by email to arrange an interview to discuss suitability of the course. In your email, please add a sentence or two about your background and interest in the course.

<table>
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<tr>
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Students in Math 395 (Fall term) should add to the wait list in order to receive an override. Completion of Math 295 is required. Others will require the permission of an Honors advisor.

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Students in Math 395 (Fall term) should add to the wait list in order to receive an override. Completion of Math 295 is required. Others will require the permission of an Honors advisor.

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Please add your name to the wait list. Priority is given to Actuarial and Financial Math majors.

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Wait list preference given to Actuarial Math students.

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Enrollment for this class is managed through the waitlist. Please add yourself to the waitlist if you would like to enroll. Permissions will be issued to students with the appropriate prerequisites as space allows.

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Enrollment for this class is managed through the waitlist. Please add yourself to the waitlist if you would like to enroll. Permissions will be issued to students with the appropriate prerequisites as space allows.

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For waitlisted students: preference is given to Financial Math majors.

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For waitlisted students: preference is given to Financial Math majors.

Wait list preference given to Financial Math Majors

Math 520 with a grade of C- or above is the enforced pre-req for Math 521

Please add your name to the wait list. Preference is given to Financial Math and AIM graduate students

FIN ENGINEERS, AIM AND ACTU/FIN MATH STUDENTS ONLY. STUDENTS SHOULD ADD THEMSELVES TO THE WAITLIST.

Please add your name to the wait list. Preference is given to students in the Quantitative Finance Program.

FIN ENGINEERS, AIM AND ACTU/FIN MATH STUDENTS ONLY. STUDENTS SHOULD ADD THEMSELVES TO THE WAITLIST.

Please add your name to the wait list. Preference is given to students in the Quantitative Finance Program.

Please add yourself to the waitlist if you wish to register for this course. Math 493 is the enforced prerequisite.

Please add yourself to the waitlist if you wish to register for this course.

Please add yourself to the waitlist if this section is full. Preference is given to Financial Math and AIM graduate students

Please add yourself to the waitlist if this section is full. Preference is given to Financial Math and AIM graduate students

Please add your name to the wait list. Priority is given to students in the Quantitative Finance Program.
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Seats are reserved for Math Graduate students. Math undergrads and non-math grad students may add their name to the wait-list once undergrad registration has begun.
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### Middle East Studies Department

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| 21764  | P RW SEM 001 TTH | 10-1130AM | 2155 NQ | Cross |
| 27466  | P RW SEM 002 TTH | 1-230PM | 1110 NQ | Eliav |
| 32523  | P RW SEM 003 TTH | 1130-1PM | 2155 NQ | Schmidt |

| 315    | Intro Arab Culture | 4.00 |
| 10974  | A LEC 001 MW | 12-1PM | 1400 CHEM | Bardenstein |
| 16207  | P W DIS 002 TTH | 9-10AM | 268 WEISER | Karizat |
| 16208  | P W DIS 003 TTH | 12-1PM | 1105 NO | Al-khersan |
| 16807  | P W DIS 004 TTH | 2-3PM | 2011 MLB | Farghadani |
| 16927  | P W DIS 005 TTH | 3-4PM | B116 MLB | Farghadani |
| 19202  | P W DIS 006 TTH | 4-5PM | 2175 NO | Eljamal |
| 19647  | P W DIS 007 TTH | 5-6PM | B122 MLB | Eljamal |
| 33559  | P W DIS 008 TTH | 10-11AM | 271 WEISER | Karizat |

| 320    | Ottoman History II | 3.00 | ENFORCED |
| 29666  | P RW LEC 001 MW | 1130-1PM | 1105 NQ | Cipa |
| 323    | Proph Muhammad Islam | 3.00 |
| 32517  | P W LEC 001 TTH | 230-4PM | 1185 NQ | Hagen |

| 330    | The Arabian Nights | 3.00 |
| 32513  | P W LEC 001 TTH | 1130-1PM | G040 TISCH | Ali |
| 335    | Hist&Rel Judaism | 3.00 |
| 32522  | P W LEC 001 MW | 530-7PM | G040 TISCH | Boccaccini |

| 338    | Egyptian Arch | 4.00 |
| 32595  | A LEC 001 MW | 1-230PM | LEC RM 1 MLB | Richards |
| 32596  | P W DIS 002 F | 11-12PM | 1448 MH | Difabio |
| 32597  | P W DIS 003 F | 1-230PM | 2407 MH | Difabio |
| 32598  | P W DIS 004 F | 11-12PM | 1185 NQ | Difabio |

| 340    | G Khan to Taliban | 4.00 |
| 31583  | SI LEC 001 MW | 1-230PM | 2260 USB | Northrop |
| 31587  | P W DIS 002 W | 3-4PM | B103 MLB | Smith |
| 31591  | PI W DIS 003 TH | 10-11AM | 806 BMT | Smith |
| 31595  | PI W DIS 004 TH | 11-12PM | 268 WEISER | Binboga |
| 31599  | PI W DIS 005 TH | 1-2PM | 2752 SSWB | Binboga |

| 341    | Sci/Tech Ancient ME | 3.00 | ADVISORY |
| 29978  | P W LEC 001 MW | 1-230PM | 1245 NQ | Davis |
| 354    | Ancient Jerusalem | 3.00 |
| 34183  | P W LEC 001 TH | 4-7PM | 2202 MLB | Eliav |

| 356    | Israeli Cul&Soc | 3.00 |
| 29690  | P W LEC 001 TTH | 230-4PM | 2062 PALM | Pinsker |

| 375    | Islam in South Asia | 4.00 |
| 31664  | AI LEC 001 TTH | 1130-1PM | 1427 MH | Mir |
| 31669  | PI W DIS 002 T | 1-2PM | 3411 MH | Gupta, Mir |
| 31674  | PI DIS 003 ARR | 1-2PM | 3411 MH | Gupta |
| 33606  | PI W DIS 004 W | 11-12PM | 2462 MH | Gupta |

| 389    | Armenians in Turkey | 3.00 |
| 31693  | P W LEC 001 TTH | 1-230PM | 2244 USB | Al-Rustom |

| 391    | HU Topics: MES | 3.00 | ADVISORY |
| 25169  | P W SEM 001 WF | 1130-1PM | 1245 NQ | Hussein |
| 27979  | P W SEM 002 MW | 10-1130AM | 1339 MH | Wollenberg |
| 33988  | P W SEM 003 TH | 530-7PM | 2114 MLB | Roby |

| 418    | Islam and Russia | 3.00 |
| 32519  | P W SEM 001 MW | 10-1130AM | G449 MH | Knysh |

This course will be shared via synchronous videoconferencing with the University of Illinois as part of the Digital Islamic Studies Curriculum. Students enroll at their home institution for 3 course credits. Visit bit.ly/2Xuyh05 for course registration information.

<p>| 430    | History of Arab Lit | 3.00 |</p>
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**Persian Language (PERSIAN)**

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This course is scheduled according to students' availability. Please contact the instructor Nilay Sevinc (nsevinc@umich.edu) if you are interested in taking this course.
### Molecular, Cellular, and Developmental Biology

**Molecular, Cellular and Developmental Biology (MCDB)**

--FOR ADDITIONAL COURSES, PLEASE CHECK THE LISTINGS UNDER BIOLOGY AND EEB (ECOLOGY AND EVOLUTIONARY BIOLOGY).

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**306 Genetics Laboratory**

--LABORATORY SECTIONS BEGIN ON MONDAY, JAN. 13. PLACES MUST BE CLAIMED AT THE BEGINNING OF THE FIRST LAB MEETING.

THREE HOURS PER WEEK AT IRREGULAR TIMES WILL BE REQUIRED IN ADDITION TO THE SCHEDULED LABS.

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

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

**310 Intro Biochemistry**

--DISCUSSION SECTIONS BEGIN THE WEEK OF JAN. 13. NO CREDIT FOR THIS COURSE IS GRANTED TO THOSE WHO HAVE COMPLETED BIOLOGY 310 OR 311, OR BIOCHEM 415.

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## Organizational Studies (ORGSTUDY)

**Organizational Studies (ORGSTUDY)**

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Physics Department
Physics (PHYSICS)

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

106 Everyday Physics 3.00  25.00
11713 P  W LEC 001 MW 9-1030AM 268 WEISER Raithe, Fernandes Martins
11714 P  W LEC 002 MW 1030-12PM 268 WEISER Raithe, Dominguez

115 Principles of Phys 2.00
23286 PD W LEC 001 MWTWH 6-7PM 4404 RAND Tomasch

119 Phys World 4.00  ADVISORY
32358 AI LEC 001 TTH 1130-1PM 2520 NUB Spica
32380 PI W REC 002 W 1-2PM 2512 NUB
32382 PI W REC 003 M 12-1PM 2512 NUB

121 Physics Arch Design 5.00  ADVISORY 25.00
21740 PD W LEC 001 MW 3-5PM 268 WEISER Tomasch, Paranjape
31945 A LAB 002 W 5-7PM 268 WEISER Paranjape

122 DNA Double Helix 3.00
30084 P W SEM 001 TTH 4-530PM 120 WH Penner-Hahn

135 Phys Life Science I 4.00  ADVISORY
20340 P W LEC 001 MTWTH 6-7PM 170 WEISER Lau
20343 P W LEC 002 MTWTH 3-4PM 170 WEISER Lau

Students should elect PHYSICS 136 as the corresponding lab.

20340 P W REC 001 TTH 2-3PM 170 WEISER Mitchell

136 Life Sciences Lab I 1.00  ADVISORY 25.00
30470 PI W LAB 010 T 8-10AM 1261 RAND Lydick
30471 PI W LAB 011 T 10-12PM 1261 RAND Amidei
20546 PI W LAB 012 T 1-3PM 1261 RAND Purz
20547 PI W LAB 013 T 3-5PM 1261 RAND Purz
20548 PI W LAB 014 T 5-7PM 1261 RAND Mitchell

Please make sure that your lab section does not conflict with an evening exam for another course.

20549 PI W LAB 015 T 7-9PM 1261 RAND Mitchell

140 General Physics I 4.00  ADVISORY
20345 P W LEC 001 MTWTH 9-10AM 182 WEISER Popov

Students should elect PHYSICS 141 as the corresponding LAB section

20346 P W LEC 002 MTWTH 10-11AM 182 WEISER Popov
Students should elect PHYSICS 141 as the corresponding LAB section

20347  P  W  LEC  003  TTH  8-10AM  1060 BSB-TBL  Pando Zayas, Kerber

21171  PIRW  LEC  004  TTH  10-12PM  1060 BSB-TBL  Huterer, Kerber

31946  PDR  LEC  005  MTWTHF  1-2PM  268 WEISER  Melnichuk

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

Students should elect PHYSICS 141 as the corresponding lab.

34382  A  MID  010  TH  6-10PM  ARR

34615  A  MID  020  TH  6-10PM  ARR

This is the corresponding evening exam component for PHYSICS 140, section 001. Students from this section will be auto-enrolled to ensure that this time remains available in their schedules. The course will have three evening exams in the term.

34616  A  MID  030  TH  6-10PM  ARR

34617  A  MID  040  TH  6-10PM  ARR

This is the corresponding evening exam component for PHYSICS 140, section 002. Students from this section will be auto-enrolled to ensure that this time remains available in their schedules. The course will have three evening exams in the term.

34618  A  MID  050  TH  6-10PM  ARR

141 Elementary Lab I  1.00  25.00

This is the corresponding evening exam component for PHYSICS 140, section 003. Students from this section will be auto-enrolled to ensure that this time remains available in their schedules. The course will have three evening exams in the term.

17938  PI  W  LAB  015  T  7-9PM  1221 RAND  Zheng

Please make sure that your lab section does not conflict with an evening exam for another course.

17985  PI  W  LAB  020  W  8-10AM  1221 RAND  Wang

Please make sure that your lab section does not conflict with an evening exam for another course.

17752  P  W  LEC  001  MW  12-1PM  269 WEISER  Merlin, Day

160 Honors Physics I  4.00  ADVISORY

Please make sure that your lab section does not conflict with an evening exam for another course.
Students should elect PHYSICS 161 as the corresponding LAB section.

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Students should elect PHYSICS 241 as the corresponding lab.

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Students should elect PHYSICS 261 as the corresponding Lab section for the course.

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## Program in the Environment

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# Political Science Department

## Political Science (POLSCI)

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STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
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 4.00

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Students are auto-enrolled in Lec 030 when they elect a Dis 031-042.

11796 AI LEC 031 | 12-1PM | B834 EQ | Barron

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11797 PIRW DIS 033 | 5-6PM | 268 WEISER | Barron

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11798 PIRW DIS 035 | 5-6PM | G026 TISCH | Lee

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11800 PIRW DIS 037 | 9-10AM | 4096 EH | Liu

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11801 PIRW DIS 038 | 10-11AM | 1449 MH | Fellows

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11799 PIRW DIS 039 | 11-12PM | 1449 MH | Fellows

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11802 PIRW DIS 040 | 1-2PM | 3463 MH | Lee

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

18679 PIRW DIS 041 | 12-1PM | B830 EQ | Liu

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

18680 PIRW DIS 042 | 11-12PM | B247 EH | Liu

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11803 PIRW DIS 043 | 10-12PM | 1800 CHEM | Schreier

LECTURE 060 - Students interested in this Lecture, register for LEC 111-060 only. There is no associated discussion section.

112 Psy as Natl Science 4.00

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Students are auto-enrolled in Lec 001 when they elect a Dis 002-019.

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

Psych 112 meets the Intro Psych prereq for the Psychology and BCN Majors.

120 Sem in Psy-Soc Sci 3.00 ADVISORY

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Psych Perspectives of Politics

33285 | P RW SEM 003 | 1-230PM | 3021 EH | Jodl

Emerging Adulthood

29787 | PIRW SEM 007 | 3-6PM | 3242 LSA | Ybarra

Meaningful Leadership

121 Sem in Psy-Nat Sci 3.00 ADVISORY

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| 34637 | P RW SEM 001 | 4-530PM | 1511 EQ | Lustig

UsingCog NS to Help in Colleg

122 Intrgrp Dialogue 3.00

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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 Susmetha Baidya (e-mail: sbaidya@umich.edu).

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All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11818 P RW DIS 011 F 8-9AM 3021 EH Painter

14594 P RW DIS 012 F 9-10AM 3021 EH Painter

24388 P RW DIS 014 TH 7-8PM 3021 EH Turner

33532 P RW DIS 016 F 1-2PM 3021 EH Siu

33533 P RW DIS 017 F 2-3PM 3021 EH Siu

21557 PIRW DIS 003 M 11-12PM 269 WEISER Quirk

25306 PIRW DIS 005 M 6-7PM 1096 EH Adkins

21560 PIRW DIS 007 T 9-10AM B834 EQ Joshi

21564 PIRW DIS 011 F 11-12PM 1423 EQ Cantwell

21565 PIRW DIS 012 F 12-1PM 1423 EQ Cantwell

21566 PIRW DIS 013 F 1-2PM B834 EQ Stanley

33529 PIRW DIS 014 M 3-4PM 2866 EH Adkins

33530 PIRW DIS 015 M 11-12PM B830 EQ Stanley

33531 PIRW DIS 016 M 12-1PM 1405 EQ Stanley

29799 AIR LEC 020 TTH 1-230PM 1324 EH Polk

Students are auto-enrolled in Lec 001 when they elect a Dis 002-013. Do not contact the instructor. Inquiries should be sent to psych.saa@umich.edu.

29800 PIRW DIS 021 M 9-10AM 3021 EH Fansher

29801 PIRW DIS 022 M 10-11AM B834 EQ Fansher

29802 PIRW DIS 023 M 4-5PM 3021 EH Cheng

29803 PIRW DIS 024 M 5-6PM 1084 EH Cheng

29804 PIRW DIS 025 TH 4-5PM 2135 NQ Ahn

29805 PIRW DIS 026 TH 5-6PM 2402 MLB Ahn

Students are auto-enrolled in Lec 020 when they elect a Dis 021-035. Do not contact the instructor. Inquiries should be sent to psych.saa@umich.edu.

33360 P RW DIS 001 TH Brennan

33362 P RW DIS 002 TH 3-4PM 3401 MH Akimenka

33364 P RW DIS 003 TH 4-5PM 2346 SEB Tung

33366 P RW DIS 004 TH 5-6PM B101 MLB Akimenka

Students are auto-enrolled in Lec 001 when they elect a Dis 021-013. Do not contact the instructor. Inquiries should be sent to psych.saa@umich.edu.
Students are auto-enrolled in Lec 001 when they elect a Dis 002-015.

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

Students are auto-enrolled in Lec 020 when they elect a Dis 021-032.

All sections meet from the 1st day of class, even if they occur before the 1st lecture.
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21129 PIRW DIS 056  F  12-1PM  B247 EH  Bae
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21130 PIRW DIS 057  T  5-6PM  1084 EH  Cross
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21131 PIRW DIS 058  TH  9-10AM  1096 EH  McKellar
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21132 PIRW DIS 059  TH  5-6PM  1508 NUB  Cross
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21133 PIRW DIS 060  F  11-12PM  3752 SSWB  Benson
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21134 PIRW DIS 061  F  1-2PM  B247 EH  Bae
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

21135 PIRW DIS 062  TH  6-7PM  1096 EH  Frolich
Lecture 250-050 and Sections 051-065 are for current U of M Nursing Students ONLY. Nursing Students: Register for Dis 051-065 to be auto-enrolled in Lec 050.

270 Intro to Psychopath 4.00 ENFORCED

34288 PIRW DIS 063  F  9-10AM  1423 EQ  Rios
27563 AIR LEC 001  MW  1-230PM  1324 EH  Hyde
Students are auto-enrolled in Lec 001 when they elect a Dis 002-016. All sections meet from the 1st day of class, even if they occur before the 1st lecture.

27564 PIRW DIS 002  T  9-10AM  3866 EH  Rios
27565 PIRW DIS 003  T  2-3PM  B804 EQ  Westerman
33405 PIRW DIS 004  T  3-4PM  3866 EH  Andrews
27566 PIRW DIS 005  T  4-5PM  3866 EH  Cleary
27567 PIRW DIS 006  T  5-6PM  3021 EH  Cleary
27568 PIRW DIS 007  W  9-10AM  210 WH  Taylor-Cavelier
27569 PIRW DIS 008  W  10-11AM  210 WH  Taylor-Cavelier
27570 PIRW DIS 009  TH  9-10AM  3411 MH  Rios
33406 PIRW DIS 010  TH  12-1PM  2353 MH  Rios
27571 PIRW DIS 011  TH  12-1PM  2353 MH  Menkes
27572 PIRW DIS 012  TH  2-3PM  B804 EQ  Taylor-Cavelier
27573 PIRW DIS 013  TH  3-4PM  B804 EQ  Morris
33543 PIRW DIS 014  F  9-10AM  1060 EH  Tomlinson
33544 PIRW DIS 015  F  10-11AM  3021 EH  Tomlinson
33545 PIRW DIS 016  F  11-12PM  3021 EH  Tomlinson
33546 PIRW DIS 017  F  12-1PM  G449 MH  Lee
33547 PIRW DIS 018  TH  4-5PM  2320 SEB  Cleary
33408 PIRW LEC 020  TTH  2-4PM  B247 EH  Lopez-Duran
Winter 2020: Psych 270-020 is lecture only (there are no discussion sections for this class).

280 Intro Social Psych 4.00 ENFORCED

11836 AIR LEC 001  MW  230-4PM  1324 EH  Ackerman
Students are auto-enrolled in Lec 001 when they elect a Dis 002-017. All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11837 PIRW DIS 002  T  8-9AM  3866 EH  Choi
11838 PIRW DIS 003  T  9-10AM  271 WEISER  Fine
11839 PIRW DIS 004  T  11-12PM  B856 EQ  Fine
11840 PIRW DIS 005  T  2-3PM  1405 EQ  Fine
11841 PIRW DIS 006  T  3-4PM  1405 EQ  Aleibar
11842 PIRW DIS 007  T  5-6PM  B834 EQ  Choi
11843 PIRW DIS 008  T  6-7PM  1507 NUB  Choi
20176 PIRW DIS 010  TH  12-1PM  3021 EH  Vossoughi
20177 PIRW DIS 011  TH  3-4PM  2135 NQ  Muñoz-Salgado
22644 PIRW DIS 013  F  9-10AM  B804 EQ  Melani
33534 PIRW DIS 014  F  10-11AM  3207 LSA  Bartz
33535 PIRW DIS 015  F  11-12PM  2135 NQ  Melani
33536 PIRW DIS 016  F  12-1PM  2135 NQ  Melani
33537 PIRW DIS 017  F  1-2PM  B804 EQ  Vossoughi
33538 PIRW DIS 018  T  4-5PM  4128 LSA  Vossoughi
33539 PIRW DIS 019  T  5-6PM  4128 LSA  Vossoughi

290 Intro Psych Persn 4.00 ENFORCED

29815 A R LEC 001  TTH  230-4PM  1202 SEB  Durkee
Students are auto-enrolled in Lec 001 when they elect a Dis 002-010. All sections meet from the 1st day of class, even if they occur before the 1st lecture.

29816 P RW DIS 002  W  9-10AM  3021 EH  Chang
29817 P RW DIS 003  W  11-12PM  1508 NUB  Chang
29818 P RW DIS 004  W  12-1PM  4128 LSA  Perkins
29819 P RW DIS 005  W  3-4PM  4088 EH  Parra
29820 P RW DIS 006  W  4-5PM  1423 EQ  Perkins
29821 P RW DIS 007  W  5-6PM  B804 EQ  Perkins
33539 P RW DIS 008  TH  10-11AM  3356 MH  Chang
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Students are auto-enrolled in Lec 001 when they elect a Dis 002-007. All sections meet from the 1st day of class, even if they occur before the 1st lecture.

| 23132 | PIRW DIS 002 T 3-4PM 335 WH Kiebler |        |         |
| 23133 | PIRW DIS 003 T 4-5PM 4088 EH Kiebler |        |         |
| 23134 | PIRW DIS 004 T 5-6PM 1508 NUB Kiebler |        |         |
| 23135 | PIRW DIS 005 W 9-10AM 1512 NUB McGhee |        |         |
| 23136 | PIRW DIS 006 W 12-1PM B856 EQ McGhee |        |         |
| 23137 | PIRW DIS 007 W 4-5PM 373 LORCH McGhee |        |         |

| 297 | Promo Equity&Inclus 3.00 |        |         |
| 33554 | P W LEC 001 MW 10-1130AM B247 EH Stewart |        |         |

| 303 | Res Methods & Psych 3.00 |        |         |
| 16986 | AIR LEC 001 M 4-530PM 170 WEISER Rabinowitz |        |         |

Research
Students are auto-enrolled in Lec 001 when they elect a Dis 002-013.

| 16987 | PIRW LAB 002 T 830-10AM 1060 EH Douglas |        |         |
| 22428 | PIRW LAB 003 T 1130-1PM 1060 EH Douglas |        |         |
| 16998 | PIRW LAB 004 F 1-230PM 1060 EH Arroyo |        |         |
| 16999 | PIRW LAB 005 W 4-530PM 1060 EH Seifeldin |        |         |

Research
Attend 1st day of lab sections even if they occur before the first lecture.

| 16990 | PIRW LAB 006 T 4-530PM 1060 EH Merrell |        |         |
| 16991 | PIRW LAB 007 TH 1130-1PM 1060 EH Stilwell |        |         |

Research
Attend 1st day of lab sections even if they occur before the first lecture.

| 17455 | PIRW LAB 008 TH 230-4PM 1060 EH Stilwell |        |         |

Research
Attend 1st day of lab sections even if they occur before the first lecture.

| 21090 | PIRW LAB 009 TH 4-530PM 1060 EH Merrell |        |         |

Research
Attend 1st day of lab sections even if they occur before the first lecture.

| 27574 | PIRW LAB 010 F 1130-1PM 1060 EH Arroyo |        |         |
| 23403 | PIRW LAB 011 F 10-1130AM 1060 EH Seifeldin |        |         |

Research
Attend 1st day of lab sections even if they occur before the first lecture.

| 304 | Teaching&Leading 2.00-4.00 ADVISORY 40.00 |        |         |
| 22513 | PI LAB 001 T 7-830PM B247 EH Quart |        |         |

Michigan Mentorship Program
Students will need to have previously taken one of the following courses: Psych 240, 250, 270, or 280.

| 36953 | PI LAB 233 ARR ARR Miller |        |         |
| 19875 | PI LAB 471 T 6-7PM B247 EH Quart |        |         |

Group Leading

| 305 | Psych Practicum 1.00-4.00 ADVISORY 30.00 |        |         |
| 22558 | PI LAB 010 TH 4-5PM ARR Hicks |        |         |

Alcohol&Other Behav-Commun II
Interested applicants should contact: Angela Galka, anti@med.umich.edu, 734-232-3352. The class meets in the Rachel Upjohn Building (Department of Psychiatry).

| 30088 | PI LAB 661 ARR ARR Wierba |        |         |

Peer Group Leaders

| 306 | Group Leading 3.00 ADVISORY |        |         |
| 11807 | PI LAB 001 T 6-730PM 171 LORCH Hurley |        |         |

Interested students need to fill out an application at http://sites.lsa.umich.edu/projectoutreach/. Send your completed application to the GSI of the Psych 211 section you’re interested in. Email questions to project.outreach@umich.edu

| 21362 | PI LAB 002 T 6-730PM 1508 NUB DeMarco |        |         |

Interested students need to fill out an application at http://sites.lsa.umich.edu/projectoutreach/. Send your completed application to the GSI of the Psych 211 section you’re interested in. Email questions to project.outreach@umich.edu

| 21363 | PI LAB 003 TH 6-730PM 171 LORCH Wells |        |         |

Interested students need to fill out an application at http://sites.lsa.umich.edu/projectoutreach/. Send your completed application to the GSI of the Psych 211 section you’re interested in. Email questions to project.outreach@umich.edu

| 21364 | PI LAB 004 TH 6-730PM 1508 NUB Wagner |        |         |

Interested students need to fill out an application at http://sites.lsa.umich.edu/projectoutreach/. Send your completed application to the GSI of the Psych 211 section you’re interested in. Email questions to
Interested students need to fill out an application at http://sites.lsa.umich.edu/projectoutreach/. Send your completed application to the GSI of the Psych 211 section you’re interested in. Email questions to project.outreach@umich.edu.

Practicum in Child Dev & Care

307 Directed Experience 3.00 ADVISORY

For registration information call 734-647-7144 or email judymc@umich.edu

11809 PI LEC 001 T 10-1130AM 3519 EH Wierba

For registration information call 734-647-7144 or email judymc@umich.edu

11847 PI W DIS 002 TH 10-11AM 1401 MH Chiang

If you do not meet the prereq for this course, please request an override by emailing psych.saa@umich.edu. Specify the following in your request: Psych 336-001; your UMID #, and your uniqname.

337 Hormones&Behavior 3.00 ENFORCED

17443 PI LEC 001 T 1130-1PM 2471 EH Buvinger

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

341 Adv Lab Cog Psych 3.00 ENFORCED

11820 PI W DIS 002 TH 10-11AM 1401 MH Chiang

Students are auto-enrolled in Lec 001 when they elect a Dis 002-004.

351 Developmental Lab 3.00 ENFORCED

11833 AIR LEC 001 T 10-1130AM 269 WEISER Buvinger

All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11834 P RW LAB 002 TH 10-1130AM 1060 EH Costa

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Mindfulness & Engaged Living

Psych 390-001 Students who do not meet the prereq: IF you have previously taken Introductory Psychology (eg, Psych 111 or Psych 112), you may email call or come in for an override (734-764-2580; Psych SAA Office 1343 East Hall).

Religion and Spirituality

Intro to Forensic Psych

The Ideal Woman

The Science of Happiness

Psy 401-006 - The Science of Happiness: This class is NOT AVAILABLE to students who have previously taken Psych 314 or Psych 476 Positive Psychology.

If you are interested in Psych 401-006, please fill out the form below http://myumi.ch/JWDE9 (copy and paste link into new tab)

Adv Research in Sexuality

The Ideal Woman

Soc Psych of Empathic Process

Queer Psychology

Psycho of (Effective) Altruism

Innov Methodologies in Soc Psy

Forces that Shape Culture

Trauma&Intim Partner Violence

Multicultur Prepec Child Dev

404  | Field Practicum SI IND + ARR          |     |             |        |
| 405  | Pract Univ Setting SI IND + ARR       |     |             |        |
| 411  | IGR Capstone 3.00 ADVISORY           |     |             |        |
| 413  | History Modern Psych 3.00 ENFORCED   |     |             |        |
| 420  | Adv Reading NS SI IND + ARR           |     |             |        |
| 421  | Adv Reading Soc Sci                  |     |             |        |

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422 Adv Research NS
IND + ARR
423 Adv Res Soc Sci
IND + ARR
424 Sr Hon Res I Nat Sci
16388 AI SEM 001 F 10-1130AM ARR
426 Sr Hon Res II Nat Sc
11850 AI SEM 001 F 10-1130AM 1068 EH
428 Sr Thesis Res I
429 Sr Thesis Res II
430 Topics in Biopsych
24354 P RW SEM 001 TTH 10-1130AM 1068 EH
29840 PIRW SEM 002 MW 830-10AM 1068 EH
30316 P RW SEM 003 MW 1130-1PM 173 LORCH
432 Adv Top Evol&Comp Psy
27587 P RW SEM 001 T 3-6PM 1512 EQ
436 Sleep:Brain & Behav
33475 P RW SEM 001 TTH 230-4PM 1068 EH
33476 P RW SEM 001 MW 1-230PM B856 EQ
36940 PIRW SEM 002 TTH 1130-1PM 3254 LSA
446 Altruism
29843 PIRW SEM 001 TTH 1-230PM 1372 EH
447 Current Topics CCN
30089 PIRW SEM 002 MW 230-4PM 1280 LSA
456 Human Infancy
29844 PIRW LEC 001 TTH 230-4PM B856 EQ
457 Curr Topic Dev Psych
23001 PIRW SEM 002 MW 230-4PM 1280 LSA
467 Curr Topic Org Psych
25285 PIRW SEM 001 TTH 830-10AM 269 WEISER
474 Intro Behav Therapy
33478 PIRW LEC 001 TTH 830-10AM 1068 EH
475 Traumatic Stress
29846 PIRW SEM 001 M 1-4PM 1372 EH
488 Soc of Deviance
32249 S W LEC 001 MW 10-1130AM 1449 MH
32251 P W DIS 002 W 12-1PM B116 MLB
32253 P W DIS 003 W 3-4PM 3254 LSA
32255 P W DIS 004 W 4-5PM 3254 LSA
519 Supervised Research
21950 AI SEM 001 M 9-11AM 2058 EH
24593 PI LAB 073 ARR ARR
36322 P LAB 077 ARR ARR

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Psych 731 meets TTH 4-530pm in 1324EH. The class meets Wednesdays 5-6pm EH4464.

Psych 733-001 meets in EH1084 with Psych 330-001 for Winter 2020. After registration, Psych 733 Class will decide on an additional one hour meeting time.

Psych 759-001 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Winter 2020.

Psych 771-001 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Winter 2020.

Psych 786-001 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Winter 2020.
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**Notes:**
- Advisories are required for Elem ASL II and Intermediate ASL II.
- Advisories are required for Int Indonesian Orch.
- Advisories are required for Sci/Tech Ancient ME.
- Locations and times are as listed.
### Studies In Religion

#### Religion (RELIGION)

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**Notes:**
- **CR** indicates the credit hours for each course.
- **PREREQ** indicates any prerequisites required for each course.
- **LAB FEE** indicates any fees associated with lab sessions.
# Romance Languages Department

## Catalan (CATALAN)

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## French (FRENCH)

**Drop Policy:** 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.

**Placement Test:** 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.

This does not apply to students enrolling in French graduate-level courses.

** Override Request Information:**

www.lsa.umich.edu/rll/langinstruct/overrides.html

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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. Students with any prior French experience that do not take the placement exam and self enroll in French 101 will be dropped from French 101.

The textbook Portails can be purchased through the online bookstore or directly from the publisher at:


| 102     | Elementary     | 4.00 | ENFORCED |         |
| 11404   | PDRW REC 001   | MTTHF 8-9AM | B101 MLB | Ames |
| 21596   | PDRW REC 003   | MTTHF 9-10AM | 2402 MLB | McCrea |
| 31272   | PDRW REC 005   | MTTHF 10-11AM | 2202 MLB | McCrea |
| 31273   | PDRW REC 007   | MTTHF 12-1PM | 2212 MLB | McCrea |

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. Students with any prior French experience that do not take the placement exam and self enroll in French 101 will be dropped from French 101.

The textbook Portails can be purchased through the online bookstore or directly from the publisher at:


| 103     | Elementary Review| 4.00 | ENFORCED |         |
| 28933   | PDRW REC 001    | MTTHF 8-9AM | 5521 HH | Kreps |
| 19767   | PDRW REC 002    | MTTHF 9-10AM | 1359 MH | Kreps |
| 16931   | PDRW REC 003    | MTTHF 10-11AM | 1511 EQ | Ames |
| 31275   | PDRW REC 009    | MTTHF 12-1PM | B856 EQ | Ames |

The textbook Portails can be purchased through the online bookstore or directly from the publisher at:


| 113     | Accel Rdg French| 4.00 |         |         |
| 22983   | PD W REC 001    | TTH 9-11AM | 3359 MH | Gabaron |

<p>| 231     | Second Year     | 4.00 | ENFORCED |         |
| 21597   | PDRW REC 001    | MTTHF 8-9AM | 2412 MLB | Renoux |
| 24018   | PDRW REC 002    | MTTHF 9-10AM | B101 MLB | Butler-Borrutau |
| 16946   | PDRW REC 003    | MTTHF 9-10AM | 1436 MH | Kolekar |
| 30056   | PDRW REC 004    | MTTHF 10-11AM | B101 MLB | Butler-Borrutau |</p>
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### Italian (ITALIAN)

--DROP POLICY: 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.

--PLACEMENT TEST: 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/rll/undergraduate/languageplacement/languageplacementtests.

--OVERRIDE REQUEST INFORMATION: www.lsa.umich.edu/rll/langinstruct/overrides.html

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Portuguese (PORTUG)

102 Elementary
11795 PDRW REC 001 MTTHF 10-11AM 2112 MLB Segarra Costaguta Mattos
4.00 ADVISORY, ENFORCED

232 Second-Year
19857 PDRW REC 001 MTTHF 11-12PM 2112 MLB Segarra Costaguta Mattos
3.00 ADVISORY, ENFORCED

280 Port Rom Lang Spkr
27128 PDRW REC 003 TTH 1-230PM 6000 STB Segarra Costaguta Mattos
3.00 ENFORCED

342 Cult,Pwr, Pol Brazil
31253 PD W SEM 001 TTH 230-4PM G160 AH Langland
1.00-3.00 ADVISORY

Romance Languages and Literatures (ROMLANG)

253 The Mediterranean
31378 PD W SEM 001 MW 12-1PM 1175 NQ Szpiech
3.00

note: Monday & Wednesday class meetings of Spanish 373.001/RomLang 253.001 are conducted in Spanish. Friday lecture is conducted in English. This class counts toward the Spanish major/minor as a 279-399-level elective course.

400 Topics in Rom Lang
32000 P W REC 001 W 12-2PM 1508 NUB Fila
1.00

Portuguese for the Professions Winter 2020: This course counts toward the Portuguese minor requirements.

492 Senior Honors
D IND + ARR ARR
3.00 ADVISORY

Romance Linguistics (ROMLING)

298 Intro Spanish Ling
31354 PDRW LEC 001 TTH 1130-1PM 120 WH Goetz
3.00 ENFORCED

410 Sp Phonetics/Phonolo
31386 PDRW REC 001 MW 230-4PM 1509 NUB Henriksen
3.00 ADVISORY, ENFORCED

413 Teaching Spanish
31388 PDRW REC 002 MW 230-4PM 1509 NUB Henriksen
3.00 ADVISORY, ENFORCED

415 Probs Translation
28710 PDRW LEC 002 TTH 830-10AM B113 MLB Gallego
3.00 ADVISORY, ENFORCED

487 Studies Hisp Ling
28714 PDRW REC 001 MW 10-1130AM 1507 NUB Satterfield
3.00 ADVISORY, ENFORCED

Mock Spanish

990 Diss-Precand
IR IND + ARR ARR
6.00 ADVISORY

995 Diss-Cand
IR IND + ARR ARR
8.00 ENFORCED

Spanish (SPANISH)

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--OVERRIDE REQUEST INFORMATION: www.lsa.umich.edu/rll/langinstruct/overrides.html

100 Intensive Elem Span
20770 PDRW REC 003 MTTHF 2-4PM 2106 MLB Primorac
8.00 ADVISORY, ENFORCED

Please note the schedule change for this section: W20 Spanish 100.003 will meet MTThF 2-4 pm.

The textbook can be purchased through the online bookstore or directly from the publisher at http://vistahigherlearning.com/store/umdichigan.htm.

101 Elementary
26029 PDRW REC 001 MTTHF 9-10AM 2330 MH Worden
4.00 ADVISORY, ENFORCED

For students with no previous study or by placement. Students with any previous study of Spanish or prior instruction in Spanish must take the placement test before enrolling. Students with any prior experience that do not take the placement exam and self-enroll in Spanish 101 will be dropped from Spanish 101.

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This is a CSP section. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

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Access to the required online materials for this course can be purchased through the online bookstore or directly from the publisher at http://vistahigherlearning.com/store/umichigan.htm.

Hispanic World Through Food

topic section: The Hispanic World Through Food.

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LGBTQA in the Hispanic World

topic section: LGBTQA in the Hispanic World: Artistic and Cultural Manifestations.

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Conozcamos Argentina!

topic section: Conozcamos Argentina! An Imaginary Trip Through Literature.

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LGBTQA in the Hispanic World

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Conozcamos Argentina!

topic section: Conozcamos Argentina! An Imaginary Trip Through Literature.

Please note, this class meets in the LRC Mac Lab on Fridays.

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Artefactos y patrimonio cult

topic section: Artefactos y Patrimonio Cultural.

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Rdg. Grammar, & Comp

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Please note the change in schedule for this Winter 2020 Spanish 488.007 class: it will meet Tues/Thurs 1-2:30 pm.
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Sweetland Center for Writing

Gayle Morris Sweetland Center for Writing (WRITING)

100 Practice of Writing 3.00
18690 PI W REC 001 MW 2-3PM 1155 NQ Babcock

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.

200 Dig Media Writing 3.00
19495 P W SEM 001 MW 2-3PM 2230 USB Hetzel

This class meets 01/10 to 02/21. As per Sweetland policy, students cannot add a mini course after the second class meeting (01/16).

22485 P W SEM 002 TTH 1130-1PM 2230 USB Li

The Rhetoric of Blogging

This class meets 02/28 to 04/17. As per Sweetland policy, students cannot add a mini course after the second class meeting (03/12).

29604 P W SEM 003 TTH 230-4PM 2230 USB Karczynski

The Art of the Photo Essay

201 Dig Media Wrtg Mini 1.00
25206 P W SEM 001 F 1-3PM G437 MH Beal

Fake News

This class meets 01/10 to 02/21. As per Sweetland policy, students cannot add a mini course after the second class meeting (01/16).

29608 P W SEM 002 F 1-3PM G437 MH Beal

The Rhetoric of Blogging

This class meets 02/28 to 04/17. As per Sweetland policy, students cannot add a mini course after the second class meeting (03/12).

29610 P W SEM 003 F 11-1PM 2310 SEB Tell

Collecting Stories

This class meets 02/28 to 04/17. As per Sweetland policy, students cannot add a mini course after the second class meeting (03/12).

220 Writing Minor Intro 3.00
21684 PD SEM 001 TTH 230-4PM 1303 MH Brancho

21685 PD SEM 002 TTH 10-1130AM 2230 USB Babcock

229 Editing & Style 1.00
32629 PI SEM 001 M 3-5PM 1135 NQ Li

This course is open to UNDERGRADUATES only. Meets 03/09 through 04/20.

Students hoping to add Writing 229 after the term starts must seek permission from the instructor.

300 Sem Peer Consulting 3.00 ADVISORY
22418 PD SEM 001 MW 830-10AM 1155 NQ Modey

301 Prac Peer Consulting 1.00 ENFORCED
11300 PDR SEM 001 W 4-5PM 2160 SHAPIRO Modey

Meets in 2160 Shapiro Library

305 MWrite Fellows 1.00
27029 PD SEM 001 F 9-10AM 1280 LSA Cassel

27465 PD SEM 002 W 4-5PM 2022 STB Sano

340 Adv Intl Comm 1.00
25220 P RW SEM 001 F 11-12PM 1135 NQ Li

Writing 340 is for undergraduate students only.

350 Upper-Lvl Wrtg 1.00 ADVISORY
21795 PD SEM 001 W 11-12PM 1636 CHEM Ciccilli

405 Contemporary Topics 3.00 ENFORCED
29620 P RW SEM 001 MW 230-4PM G634 HH Nichols

"White Trash" & Rural America

410 Quant Analys & Wrtng 3.00 ADVISORY
24321 P RW SEM 001 TTH 830-10AM 4128 LSA Sano

Understanding Water Crises

420 Writing Capstone 3.00 ADVISORY
23140 PD SEM 001 TTH 4-530PM 1303 MH Manis

23141 PD SEM 002 TTH 1130-1PM 2175 NQ Hetzel

23142 PD SEM 003 MW 4-530PM 1155 NQ McDaniel

630 Adv Grad Writing 1.00 ADVISORY
19428 PDR SEM 001 T 11-12PM 1185 NQ Sessolo

22619 PDR SEM 002 T 11-12PM 1632 CHEM Brancho

Dissertation Writing 1.00
29621 PDR SEM 001 F 9-10AM 2155 NQ Sessolo

993 Teaching Writing 1.00
11301 PD SEM 001 F 4-5PM 1185 NQ Ciccilli

This class begins on January 14th.

18106 PD SEM 002 W 9-10AM 1185 NQ Ciccilli

This class begins on January 15th.
### SRC-PSM Graduate Program

#### Survey Methodology (SURVMETH)

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Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu

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**Complex Samples Public Health**

**Statistical Methods for Analysis of Complex Samples in Public Health**

Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu

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**Small Area Estimation**

Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu

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**Directed Research**

Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu

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**Diss-Precand**

Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu

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**Diss-Cand**

Contact Michigan Program in Survey Methodology for additional information or permission:
michpsm.isr@umich.edu
### Slavic Languages & Lit Dept

**Bosnian/Croatian/Serbian (BCS)**

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**Russian (RUSSIAN)**

---ALL NON-LANGUAGE COURSES TAUGHT IN ENGLISH, EXCEPT WHERE NOTED.

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**U of M Schedule of Classes**

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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.

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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 Susmetha Baiyda (e-mail: sbaidya@umich.edu).

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**SocSci Statistics**

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Request permission at igrcourses@umich.edu. Please indicate course number, student name, umich email and student ID. Permissions will be granted starting Dec. 1st.

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Ed: Ann Arbor Public Schools

Ann Arbor Public Schools

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Ed: Brilliant Detroit

Brilliant Detroit (Must be willing to drive or carpool to Detroit, Driver's license highly recommended)

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Downtown Boxing Gym Youth Program (Must be willing to drive or carpool to Detroit, Driver's license highly recommended)

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Ed: Latino Family Services

Latino Family Services (Must be willing to drive or carpool to Detroit, Driver's license highly recommended)

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Ed: Mentor to Youth

Mentor2Youth

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Ed: Jewish Family Services

Jewish Family Services

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Dawn Farm-Spera Recovery Center

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Ed: Carrot Way Community Cntr

Avalon Housing

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U-M Psychiatry Clinic-Zero to Thrive (Override Required)

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Ed: Peace Neighborhood Center

Peace Neighborhood Center

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Ed: 826Michigan

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PH: Unified HIV Health&Beyond

UNIFIED-HIV Health & Beyond

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**PH: Shelter Assoc of Washtenaw**
Shelter Association of Washtenaw/Food Gatherers
27294 PD DIS 016 TH 10-11AM 3207 LSA Kemp

**PH: Health Ambassadors**
Project Healthy Schools
33401 PD DIS 017 TH 10-11AM 4155 LSA Casanova

**Hope Clinic (Override Required)**
27295 PD DIS 018 TH 11-12PM 3207 LSA Kemp

**Gus Harrison Prison (Override Required)**
27296 PD W DIS 019 TH 11-12PM 3207 LSA Kemp

**CJ: Prison-Creative Writing**
Washtenaw County Jail - Creative Writing (Override Required)
27297 PD DIS 020 TH 11-12PM 3207 LSA Kemp

**CJ: Jail(M&W)-Creative Writing**
27298 PD DIS 021 TH 10-11AM 3207 LSA Kemp

Alternatives for Girls (Must be willing to drive or carpool to Detroit, Driver's license highly recommended)
33402 PD DIS 021 TH 10-11AM 3207 LSA Kemp

**Social Class Expres**
3.00
24081 A LEC 001 TTH 4-5PM AUD B AH Peterson
24144 PI W DIS 002 M 4-6PM 180 TAP
24145 PI W DIS 003 F 10-12PM 1105 NO
24146 PI W DIS 004 F 10-12PM 1175 NO
24147 PI W DIS 005 F 12-2PM 1175 NO
28903 PI DIS 006 F 12-2PM 130 TAP
28904 PI DIS 007 M 4-6PM 1438 MH

**Principles&Problems**
3.00
25004 PDRW LEC 001 TTH 1130-1PM 1449 MH McGinn

**Intro Soc: Hilth&Soc**
4.00
25005 A LEC 001 TTH 1-230PM 3254 LSA Lang
25006 P RW DIS 002 TH 4-5PM 806 BMT Waller-Bey
25007 P RW DIS 003 TH 5-6PM 1469 MH Waller-Bey
32173 P W DIS 004 F 12-1PM G168 AH Macias
25008 P R DIS 005 F 8-9AM 3347 MH Waller-Bey
25188 P R DIS 006 F 9-10AM 1460 MH Tucker-Shabazz
25189 P R DIS 007 F 3-4PM 5180 BH Macias

**Race&Ethnicity**
4.00
ADVISORY
26859 A LEC 001 MW 1130-1PM 1449 MH Mahan
26860 P DIS 002 W 4-5PM 1444 AH Tucker-Shabazz
26861 P DIS 003 W 5-6PM 3401 MH Tucker-Shabazz
26862 P DIS 004 W 6-7PM 3448 MH Tucker-Shabazz

**Amer Immigration**
4.00
ADVISORY
32153 S W LEC 001 TTH 10-1130AM 4020 TMC Pedraza
32135 A W DIS 002 W 9-10AM 3242 LSA McAuliffe
32136 A W DIS 003 W 10-11AM 3242 LSA McAuliffe
32137 A W DIS 004 W 11-12PM 3242 LSA McAuliffe

**Intro Soc Theory**
4.00
ADVISORY
17703 AD LEC 001 TTH 4-530PM 3254 LSA McGinn

**Socio Res Methods**
4.00
ADVISORY, ENFORCED
11880 A R LEC 001 TTH 230-4PM 1428 LSA Hawks Jr
32174 P RW DIS 002 F 9-10AM 4128 LSA Hawks Jr
11881 P RW DIS 003 F 12-1PM 4128 LSA Hawks Jr
11882 P RW DIS 004 F 2-3PM 4128 LSA Hawks Jr

**Soc Sci Theory I**
4.00
ADVISORY
25053 P SEM 001 WF 10-12PM B834 EQ Robinson

**Commu & Capit E Eur**
4.00
25714 A LEC 001 TTH 1130-1PM 260 WEISER Fehervary
25715 PI DIS 002 TH 3-4PM 238A WH Babin, Fehervary
25716 PI DIS 003 TH 4-5PM 238A WH Babin, Fehervary
25717 PI DIS 004 F 10-11AM 1507 NUB Deoanca, Fehervary
25718 PI DIS 005 F 11-12PM 1024 DANA Deoanca, Fehervary

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28947 PI SEM 001 MW 230-4PM G160 AH Kime
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**U of M Schedule of Classes Page 295 of 481 WN 2020 2270 03-05-2020 12:03 22412849**
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*Time May Change*
Statistics Department

Data Science (DATASCI)

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Statistics (STATS)

---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.

---ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION SYSTEM TO MAKE SURE THAT THEIR OFFICIAL SCHEDULE OF COURSES MATCHES THE COURSES THEY ARE ATTENDING.

250  Intr Stat&Data Anly 4.00

When selecting a lab section, please note there are 68 lab sections which number to section 074.

Please contact statsugradprogram@umich.edu with questions.

Winter 2020 exams:
Exam 1: Thu, Feb 20, 6-7:30 pm
Exam 2: Thu, Apr 2, 6-7:30 pm
Final: Thu, April 23, 7:30 - 9:30 PM

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406 Computational Method 3.00 ADVISORY

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412 Intro Prob Stat 3.00 ADVISORY

Exam 1 and Exam 2 will be given during lecture. There will be a common evening exam time.

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413 Appl Regression 4.00 ENFORCED

There will be a common evening exam time.

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415 Data Mining 4.00 ADVISORY

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425 Intro to Theo Stat 3.00 ADVISORY

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430 Applied Probability 3.00 ADVISORY
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Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

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### Office of International Programs

**Study Abroad (STDABRD)**

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U of M Schedule of Classes  Page 307 of 481  WN 2020 2270 03-05-2020 12:03 22412849
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# Women’s Studies Department

## Womens Studies (WOMENSTD)

A student who misses either of the first two meetings of any course offered by the Women’s Studies Department may be dropped from the course for non-attendance.

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**Sem Women & Gender**
- CR: 24279
- DATES: PIRW SEM 002 MW 1-230PM
- LOCATION: 2271 AH
- INSTRUCTOR: Larson

**Gender and Transgender**
- CR: 31911
- DATES: P SEM 003 MW 230-4PM
- LOCATION: B113 MLB
- INSTRUCTOR: Lawsin

**20thC Writing by Women of Color**
- CR: 31964
- DATES: PIRW SEM 004 MW 4-530PM
- LOCATION: G449 MH
- INSTRUCTOR: Purkiss

**Race/Gender/Recreation**
- CR: 151
- DATES: P RW SEM 001 W 2-5PM
- LOCATION: B135 MLB
- INSTRUCTOR: Wang

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**War, Gender, Masculin. Violence**
- CR: 32518
- DATES: P W DIS 002 T 4-5PM
- LOCATION: 2436 MH
- INSTRUCTOR: Valedon-Trapote

**216 Thinking Class**
- CR: 31916
- DATES: P W SEM 001 MW 230-4PM
- LOCATION: 2330 MH
- INSTRUCTOR: Hubbs

**220 Women’s Hlth**
- CR: 12023
- DATES: A LEC 001 MW 530-730PM
- LOCATION: AUD B AH
- INSTRUCTOR: Alexy

**240 Intro Women Stdy**
- CR: 31425
- DATES: PIW LEC 001 TTH 230-4PM
- LOCATION: 1436 MH
- INSTRUCTOR: Calvo-Quiros

**243 Latinas in U S**
- CR: 31245
- DATES: PIW LEC 001 TTH
- INSTRUCTOR: Calvo-Quiros

**245 Intro LGBTQ+ Studies**
- CR: 27316
- DATES: A LEC 001 MW 10-11AM
- INSTRUCTOR: Hubbs

**258 Topic Interdis WS**
- CR: 29579
- DATES: PIRW SEM 001 MW 4-530PM
- INSTRUCTOR: Bolivar

**270 Gender & the Law**
- CR: 24079
- DATES: A LEC 001 TTH 4-5PM
- INSTRUCTOR: Peterson

The above courses are auto-enrolled in lecture when they elect a discussion.
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**Psych Women & Gender** 4.00 ENFORCED

23143 AIR LEC 001 TTH 10-1130AM 1360 EH Settles

If you've taken Psych 112 or WS 220 and need an override into an open seat, contact the Psych SAA Office at 734:764-2580. Be prepared to use your override and register at the time you call (have computer with you). Open M-F 8am-5pm

23144 PIRW DIS 002 T 3-4PM 335 WH Kiebler

23145 PIRW DIS 003 T 4-5PM 4088 EH Kiebler

23146 PIRW DIS 004 T 5-6PM 1508 NUB Kiebler

23147 PIRW DIS 005 W 9-10AM 1512 NUB McGhee

23148 PIRW DIS 006 W 12-1PM B856 EQ McGhee

23149 PIRW DIS 007 W 4-5PM 373 LORCH McGhee

297 Promo Equity & Inclus 3.00

33699 P W LEC 001 MW 10-1130AM B247 EH Stewart

304 Gender & Immigration 3.00

28995 PI W SEM 001 TTH 4-530PM 2330 MH Fadlalla

Refugees of Unjust Worlds

313 Top Gender Hums 3.00

23200 P RW LEC 001 TTH 230-4PM B113 MLB Dhar

Women & Well-Being in Lit

25546 PI W LEC 002 TTH 10-1130AM 180 TAP Perlove

Heroes/HEROINES/Sinners Bible

314 Gender Sexuality Std 3.00

27421 PI W LEC 001 TTH 830-10AM 3254 LSA French

Queer of Color Lit and Culture

315 Women & Literature 3.00

12045 PI W REC 001 MW 1130-1PM 1436 MH Murphy

Black Feminist Poetry

316 Medieval Women 3.00

31564 P W LEC 001 TTH 830-10AM 3254 LSA French

322 Black Feminist Health 3.00 ADVISORY

31963 P W SEM 001 MW 1-230PM 2114 MLB Purkiss

330 Feminist Thought 3.00 ADVISORY

22284 P RW SEM 001 MW 230-4PM 2202 MLB Moffat

32444 P RW SEM 002 TTH 1-230PM B113 MLB Dhar

331 Theory Gender Health 3.00 ADVISORY

25260 P RW SEM 001 TTH 10-1130AM G239 LANE Dumes

342 Topics Gender & Health 3.00 ADVISORY

29288 P W SEM 001 MW 230-4PM B116 MLB Gabriel

Behavior, Science & Gender

343 Gnrd Race Ethnic US 3.00 ADVISORY

33961 PI SEM 001 TTH 1-230PM 3330 MH Tapia, Tolle, Miller

Baldwin in the Time of #BLM

344 Topic Gender & Culture 3.00 ADVISORY

29881 PI W SEM 001 MW 10-1130AM 3333 MH Sweeney, Bolotin

Clothing, Culture, Politics

345 Topic Gender Global 3.00 ADVISORY

27348 P RW SEM 001 MW 4-530PM 1175 NQ Dhar

Sexual Violence and the State

351 Leading Feminism 4.00 ADVISORY

25417 P W SEM 001 W 1-4PM 3333 MH Welch

Leading Feminism

363 Asian Pacific Am Wmn 3.00 ADVISORY

28608 P W LEC 001 MW 10-1130AM G168 AH Lawsin

365 Gender Global Health 3.00 ADVISORY

28593 P W SEM 001 TTH 1-230PM G160 AH Fadlalla

370 Queer Hist of the US 4.00 ADVISORY
Students who have been admitted to the Women's Studies honors program will be given overrides to enroll in this
class. Honors applications are due on Monday, Nov. 12, 2018.

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### Medicine

#### Division of Anatomical Science

**Anatomy (ANATOMY)**

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Bioinformatics

Bioinformatics (BIOINF)

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Students must provide their own laptop for class. If questions, contact the instructor.

| 525  | BI Foundations                | 1.00|         |         |
| 19485| P W LEC 010 TTH              |     |         |         |
| 230-4PM| ARR                          | Guest, Freddolino |

Intr P rog & Explor Data Analysis
Students must provide their own laptop for class. Class meets in EH B844.

| 529  | BIOINF Cncpt & Alg           | 3.00| ADVISORY |         |
| 30398| PIR LEC 001 MW               |     | Mills, Boyle |         |
| 1-230PM| 4151 USB                     |         |
| 545  | Mol Gen & Epigen Data        | 3.00| ADVISORY |         |
| 20621| P W LEC 001 TF               |     | Parker, Tsoi |         |
| 1130-1PM| 2062 PALM                    |         |
| 547  | Mathematics of Data          | 3.00| ADVISORY |         |
| 27907| P W LEC 001 TTH              |     | Rajapakse |         |
| 4-530PM| 1068 EH                      |         |
| 580  | Intro Sig Proc               | 3.00| ENFORCED |         |
| 27371| PIRW LEC 001 WF              |     | Najarian |         |
| 830-10AM| 1650 CHEM                    |         |

Intro Sig Proc meets bi-weekly beginning 2nd week of term.

| 598  | Independent Reading          | 3.00-6.00|         |         |
| 599  | Directed Research            | 1.00-8.00|         |         |
| 602  | Bioinf Journal Club          | 1.00| ADVISORY |         |
| 16580| P R SEM 001 M                |     | Bankhead III, Welch |         |
| 12-1PM| 2062 PALM                    |         |

Must be taken prior to 603.

Note: attendance at review sessions mandatory. Review sessions are ~ every 3 weeks. Day/time TBD

| 603  | Bioinf JC                    | 1.00| ENFORCED |         |
| 25555| PDRW DIS 001 M              |     | Bankhead III, Welch |         |
| 12-1PM| 2062 PALM                    |         |

Attendance at review sessions is mandatory. Sessions occur ~ 3 weeks. Wednesdays, 11:30 a.m. - 1:00 p.m.

| 665  | Statist Popul Genet         | 3.00|         |         |
| 32386| P LEC 001 MW                |     | Zoellner |         |
| 230-4PM| 4318 SPH2                    |         |

| 890  | Res Intro                    | 1.00-8.00|         |         |
| 990  | Diss Research / Prec         | 1.00-8.00| ADVISORY |         |
| 995  | Diss-Cand Res               | 8.00| ENFORCED |         |

Students must provide their own laptop for class. Class meets in EH B844.
Biological Chemistry Department

Biological Chemistry (BIOLCHEM)

298 UG Research Biochem
I IND + ARR ARR 1.00-4.00 ADVISORY

398 UG Research BIOLCHEM
I IND + ARR ARR 1.00-4.00 ADVISORY

403 Skills of Scientist
30318 PD W LEC 001 MW 230-4PM ARR Nichols

Class Meets 3340 MSRB 3

415 Intro Biochem
18645 P LEC 001 MWF 9-10AM 140 LORCH Ninfa, Nichols, Saper, Lamanna
30218 S DIS 002 T 10-11AM 2710 FSSC Lamanna
30219 S DIS 003 T 11-12PM 2710 FSSC Lamanna
30220 S DIS 004 T 1-2PM 2710 FSSC Lamanna
30221 S DIS 005 T 2-3PM 2710 FSSC Lamanna

416 Intro Biochem Lab
23055 PD W LAB 001 MW 1-3PM 3034 CHEM Yang

451 Adv Biochem I
21702 A LEC 200 MWF 10-11AM 1250 USB Koutmos
21703 P DIS 201 ARR ARR
21704 P W DIS 202 T 4-5PM 1624 CHEM Miller
21705 P W DIS 203 TH 3-4PM 2155 NQ Miller
21706 P DIS 204 ARR ARR
21707 P DIS 205 ARR ARR
21708 P W DIS 206 T 3-4PM 1624 CHEM Miller

452 Adv Biochem II
12056 S R LEC 100 MWF 9-10AM NLH MSC2 Trievel
12057 P R DIS 101 T 11-12PM 2903 THSL
12058 P R DIS 102 TH 10-11AM 2903 THSL
12059 P R DIS 103 T 11-12PM 5915 BUHL

499 Biochem Res for Ug
IR IND + ARR 1.00-6.00 ADVISORY

502 Chemical Biology II
18653 PD SEM 001 TTH 9-11AM 1200 CHEM Wang, Cierpicki, Nagorny, Grembecka

Section 002 is for Cancer Chemical Biology MS students. Section 001 is for Chemical Biology PhD students.

Contact ChemicalBiology@umich.edu for registration inquiries.

503 Skills of Scientist
30319 PD W LEC 001 MW 230-4PM ARR Nichols

Class meets 3340 MSRB 3

504 Cell Biotech
26909 P W LEC 001 MW 12-130PM 1024 FXB Putnam

515 Intro Biochem
18646 P RW LEC 001 MWF 9-10AM 140 LORCH Ninfa, Lamanna, Saper, Nichols
30231 S R DIS 002 T 10-11AM 2710 FSSC Lamanna
30232 S R DIS 003 T 11-12PM 2710 FSSC Lamanna
30233 S R DIS 004 T 1-2PM 2710 FSSC Lamanna
30234 S R DIS 005 T 2-3PM 2710 FSSC Lamanna

516 Intro Biochem Lab
23056 PD W LAB 001 MW 1-3PM 3034 CHEM Yang

528 Biol&Chem Enzymes
19974 P W LEC 001 MWF 10-11AM 1650 CHEM Marsh

This course meets for the first half of the term: 1/4/17 - 2/20/17.

552 Biochem MD Scientist
29001 PD DIS 001 MW 3-5PM ARR O'Brien

CLASS MEETS 6225 THSL EXCEPT ON APRIL 6TH WHEN IT MEETS IN 2817 MED SCI 2.

597 Critical Analysis
12062 P W LEC 001 MW 2-330PM ARR Kwok, Saper, Cheng, Fleischhacker

THIS CLASS MEETS IN 2813 THSL.

600 Intro Bio Research
IR IND + ARR 1.00-8.00 ADVISORY

603 Lit Review&Analysis
D IND + ARR 1.00-3.00 ADVISORY

631 Gen Prog Sem
12064 PD SEM 001 M 1-230PM 4917 BUHL Moran, Antonellis

640 Regulatory RNA
22567 P W LEC 001 F 1-3PM 2062 PALM Goldman, Turner

673 Kinetics&Mechanism
18284 P W LEC 001 MWF 11-12PM 1632 CHEM Palfey

This class meets in 6311 Medical Science I.

675 Membranes&Organelles
2.00 ADVISORY
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### Program in Biomedical Sciences

**Biomedical Sciences (PIBS)**

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This class will be taught several times over the course of the semester, much like PIBS 503, students will only need to attend one session. Sessions will be posted for sign up after January 4th.

This course is for first year PIBS students only. Class will be held in NLH Med Sci II.
Cancer Biology Graduate Program

Cancer Biology (CANCBIO)

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Course takes place in 2903 THSL
## Cell and Developmental Biology (CDB)

**Intro to Histology**
- **Course Code**: 450
- **Credit Hours**: 4.00
- **Prerequisites**: ENFORCED
- **Time**: 4-6PM
- **Location**: ARR
- **Instructor**: Hortsch, Nabeshima, Kemp

**Histology Allied Sciene**
- **Course Code**: 516
- **Credit Hours**: 4.00
- **Prerequisites**: ADVISORY
- **Time**: 1-2PM
- **Location**: ARR
- **Instructor**: Kim

**Histology**
- **Course Code**: 550
- **Credit Hours**: 4.00
- **Prerequisites**: ADVISORY
- **Time**: 2-5PM
- **Location**: ARR
- **Instructor**: Kim

**Directed Readings**
- **Course Code**: 598
- **Credit Hours**: 1.00-4.00
- **Prerequisites**: ADVISORY
- **Time**: ARR
- **Location**: ARR

**Directed Research**
- **Course Code**: 599
- **Credit Hours**: 1.00-8.00
- **Prerequisites**: ADVISORY
- **Time**: ARR
- **Location**: ARR

**Graduate Seminar**
- **Course Code**: 801
- **Credit Hours**: 1.00
- **Prerequisites**: ARR
- **Time**: 12-1PM
- **Location**: ARR
- **Instructor**: Giger, Hug

**Dissertation Pre-Candidacy**
- **Course Code**: 990
- **Credit Hours**: 1.00-8.00
- **Prerequisites**: ADVISORY
- **Time**: ARR
- **Location**: ARR

**Dissertation Candidacy**
- **Course Code**: 995
- **Credit Hours**: 8.00
- **Prerequisites**: ENFORCED
- **Time**: ARR
- **Location**: ARR
## Cellular and Molecular Biology

**Cellular And Molecular Biology (CMBIOL)**

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## Dermatology Department

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## Internal Medicine Department

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## Department of Learning Health Sciences

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Section 002 will meet in room 2901 THSL with the exception of January 24, 2020, when it will meet in room 2903 THSL.

Section 003 will meet in room 3813/17 Med Sci 2, with the exception of January 31, 2020, when it will meet in 5000 THSL.

### Knowl Repres&Mgt Hlt

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This class meets in the following classrooms:
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-- Feb. 10-Mar. 30: 2901 THSL
-- Apr. 6: 1170 SPH 2
-- Apr. 13-20: 2901 THSL

### NLP on Health Data

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-- Feb. 3-29: 3813/17 Med Sci 2
-- Feb. 10-Mar. 30: 2901 THSL
-- Apr. 6-13: 2901 THSL

### Hlth Inf Sem 2

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Mary H. Weiser Food Allergy Center
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**Medical School**

**Emergency Medicine (EMERGMED)**

- **Clinical Research Elective**
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**Family Medicine (FAMMED)**

- **Ug Fam Med Res**
  - CR: 1.00-16.00
Medical School Administration

Immunology (IMMUNO)

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Course takes place in A515 BSRB.

990 Pre-Cand Diss 1.00-8.00

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995 Diss-Cand 8.00 ENFORCED

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Medical School

Inteflex Medical School (INFLXMED)

401 Clinical Studies

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### Medical School Administration
#### Medical School Administration (MEDADM)

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**CAT#**

**Course Title**

**DAYS**

**TIME**

**LOCATION**

**CR**

**PREREQ**

**LAB FEE**
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# Microbiology And Immunology

**Microbiology (MICRBIOL)**

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Meet in Furstenberg Student Study Center Labs. Near Taubman Medical Library and Medical Science II-2nd floor.

Graduate students must register for MICRBIOL 540 to receive graduate-level credit.

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Human Neuroanatomy

This course focuses on key structural aspects of the human brain with an emphasis on function. We will make heavy use of clinical case studies largely in small working groups to uncover how and why symptoms linked to neurological disorders exist. For these case studies, 3-dimensional visualization tools and hands-on examination and limited dissections of human brains will be used to highlight the elegant anatomical relationships of sensory, motor, emotional, and cognitive systems.

January 10 to Feb 12 for Sensory 614
February 14 to March 25 for Behavioral and Cognitive Neuroscience 615
March 26 to April 23 for Neuropathology

This class meets together with Neurosci 602, Monday 10 to 12 in 4130 USB and Tuesday/Thursday 10 to 12 in 4151 USB.
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### Ophthalmology Department

#### Ophthalmology (OPHTH)

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### Pathology Department

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For permission to register please e-mail the instructor at davidlom@umich.edu with your previous relevant coursework.
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Pharmacology Department

Pharmacology (PHRMACOL)

425 New Medications
- 24476 P W LEC 001 TTH 10-1130AM ARR Jutkiewicz, Lee, Denomme
This class will meet in 3813/17 Med Sci II, except 3/10 which will take place in 2900 THSL and 4/7 which will take place in 5915 Buhl
- 31846 P W LEC 002 TTH 10-1130AM ARR Jutkiewicz, Burgos, O'Malley, Courtney

505 Chemical Biology II
- 18654 PD SEM 001 TTH 9-11AM 1200 CHEM Wang, Cierpicki, Nagorny, Grembecka
Contact ChemicalBiology@umich.edu for registration inquiries.
- 27447 PD SEM 002 TTH 9-11AM 1200 CHEM Wang, Cierpicki, Nagorny, Grembecka
Section 002 is for Cancer Chemical Biology MS students. Section 001 is for Chemical Biology PhD students.

Contact ChemicalBiology@umich.edu for registration inquiries.

600 Independent Study
- D IND 1.00-8.00 ADVISORY

505 Chemical Biology II
- 25811 P SEM 001 M 430-530PM ARR Gnegy, Scott, Osawa
Second Monday of the month
This course is limited to students appointed to the PSTP training grant. Meets in 2813 Med Sci II. February class will fall on the first Monday, 2/3.

605 MS Degree Research
- 22457 P SEM 001 MW 1-3PM ARR Canman, Parent

612 Sem-Antiinmicr&Cancer
- 22457 P SEM 001 MW 1-3PM ARR Canman, Parent
This class will meet in 2739 FSSC

615 Mol Neurophar
- 22456 P SEM 001 TTH 10-1215PM ARR Ferrario, Gnegy
This class will meet in 2901 THSL

616 Sem-Cardiovas Pharm
- 25811 P SEM 001 TTH 9-11AM 1200 CHEM Wang, Cierpicki, Nagorny, Grembecka
This class will meet in 2901 THSL

617 Sem Endocrine Pharm
- 24048 P SEM 001 TTH 930-1130AM ARR Iniguez-Lluhi, Auchus
This class will meet in 6235 THSL, except 4/7 which will be in 5350 THSL and 4/9 which will be in 3753 Med Sci II

631 Gen Prog Sem
- 12137 PD SEM 001 M 1-230PM 4917 BUHL Moran, Antonellis

646 Special Topics
- 12138 P SEM 001 F 12-1PM ARR Fisher, Pratt, Osawa
For Pharmacology Graduate Students only. This class will meet in 2901 THSL, except 1/24 and 1/31 which will be in WLH-3697 Med Sci II.

990 Diss-Pre cand
- 31066 P LEC 001 W 3-430PM 5370 THSL Putheenvedu

995 Diss-Cand
- R IND 8.00 ENFORCED
# Physical Medicine & Rehab Dept

## Physical Medicine & Rehabilitation (PMR)

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*Please note - this class will need a minimum of 10 students to run. Time will be mutually arranged with instructor. Please email mouli@umich.edu with your interest in the course.*
## Physiology Department

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For undergraduate students only: If you have not yet successfully completed MCDB 310, MCDB 311 or BIOCHEM 415 you may not be prepared for this course.

If you haven't completed the above courses and intend on enrolling, PLEASE CONTACT Dr. Elia.

### Advisory Courses

<table>
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**Enrollment is limited to students from the MS Program in Physiology.**

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PreMedical PostBaccalaureate Program

Post-Baccalaureate Premedical Program (MEDPREP)

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24720  P R DIS 001 W 5-7PM ARR Wishart

Fndns for Aspiring Physicians
Will meet in 2960 Taubman Health Sciences Library
## Psychiatry Department

**Psychiatry (PSYCHIAT)**

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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 https://smtd.umich.edu/current-students-2/policies-procedures/academic-procedures/#mfw-accordion-action-11, 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

Dance (DANCE)

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Modern
20193 P W LAB 001 MW 9-10AM DANCE STUDIO A Beck
Taught by dance students enrolled in DANCE 482.

Congolese
20475 P W LAB 002 MW 9-10AM DANCE STUDIO B Biza

Ballet
20476 P W LAB 003 MW 11-12PM DANCE STUDIO D Wang

Chinese Folk
20477 P W LAB 004 MW 4-5PM DANCE STUDIO B Wang

West African
20478 P W LAB 005 MW 4-5PM DANCE STUDIO A Taylor

Course Description:
In this course, we will uncover the history, context, and techniques of several West-African rhythms and dances that derive from the African civilizations associated with the people of modern-day Ghana, Guinea, Mali, and Senegal. Throughout the semester we will focus on the polyrhythmic nature of the dances, songs, rhythms, folklore traditions, customs, and music. Together as we journey throughout the entirety of this course, we will grow to develop a deeper understanding and appreciation of West-African music, dance, and culture.

Objectives and Learning Outcomes:

Students will gain integrated skills in West-African music, dance performance, and creativity through an influential and holistic learning experience.

Students will learn the importance of this dance genre as an ancient communication system rooted in the relationship between the drummer and the dancer.

Students will learn the basic fundamental techniques of West-African music and dance forms.

Students will acquire analytical, interpretative, evaluative, appreciative, and critical skills relating to West-African music, dance, and culture.

Students will develop collaborative skills needed for teamwork, community building, and social harmony.

Hip Hop
20479 P W LAB 006 MW 5-6PM DANCE STUDIO A Rosario
This is a beginning level dance course that will introduce students to the street dance style of hip-hop. This course will focus on the performance and exhibition aspects of the technique. We will touch on the history of hip-hop culture and discuss influences within the genre of music and dance. Freestyle and creativity are fundamental parts of hip-hop. Dancers will be asked to practice freestyling and to exercise their creativity as they learn choreography.

West African
20480 P W LAB 007 MW 5-6PM DANCE STUDIO B Taylor

Course Description:
In this course, we will uncover the history, context, and techniques of several West-African rhythms and dances that derive from the African civilizations associated with the people of modern-day Ghana, Guinea, Mali, and Senegal. Throughout the semester we will focus on the polyrhythmic nature of the dances, songs, rhythms, folklore traditions, customs, and music. Together as we journey throughout the entirety of this course, we will grow to develop a deeper understanding and appreciation of West-African music, dance, and culture.

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Intro to Funk Styles
20481 P W LAB 008 MW 11-12PM DANCE STUDIO A Lin
Funk styles in street dance culture was inspired by funk music, a genre developed by James Brown and George Clinton in the 1960s. This class will introduce students to West Coast Funk Styles including Boogaloo, Locking, Popping, Waving, Gliding, Strobing, Animation, Robotting, and Tutting. Through videos, readings, and physical practice,
students will learn the history and movement of various funk styles to understand their impact on popular dance culture.

 Movement Improvisation
Movement Improvisation is an introduction to various concepts and approaches in improvisational dance. From games to specific movement tasks, we will work together to unlock new ways of allowing our body to move and respond in the moment, to surprise ourselves, and to take chances. We will discover our own styles and learn what holds us back, discovering a creative process that can be applied well beyond the dance studio. No dance experience required, just a willingness to try!

 Movement Improvisation
The Limon technique is based upon the movement style and philosophy of theater developed by modern dance pioneers, Doris Humphrey and Charles Weidman. We will use Limon principles to find freedom in our joints, connection to the earth, suspension in the body, and texture in movement. Using the concepts of weight, breath and suspension, we will explore the movement of our unique bodies in community. We will have space for repeating exercises and discussing movement, allowing students to grow into the material presented. We will complement our studio practice with short reading and writing assignments and end the semester by creating and sharing our work in a final showing.

 Modern Dance
Taught by dance students enrolled in DANCE 482.

 Ballet
Intro Choreography/Composition

 Essence of Groove
This course will explore the nature of movement in spaces inspired by rhythm and expression of emotion. Improvisation will play a big role as we display identity and individuality through dance. The definitions of groove and groovin’ have evolved over time. We will take a look at the origin of the term, aspects of groove that stayed the same, and what has been lost. Movement and music will have roots in jazz, soul, funk, disco, house, and urban jazz. Dancers will be asked to explore movement through improvisation and to exercise their creativity as they learn choreography.

 Modern Dance I
Modern Dance I 1.00 ENFORCED

 Modern Dance I
Modern Dance I 1.00 ADVISORY

 Ballet I
Ballet I 1.00 ADVISORY

 Ballet I
Ballet I 1.00

 First-Year Repertory
First-Year Repertory 1.00 ADVISORY

 Joel VM Rep
19919 PD W LAB 001 TTH 12-130PM DANCE STUDIO A Mattijas-Mecca

 Carlos PG Rep
38086 PD W LAB 005 TTH 6-6PM DANCE STUDIO D Hopper, Mattijas-Mecca

 Rosie Rep
34305 PD W LAB 002 F 1-3PM DANCE STUDIO A Brading

 At's Thesis Rep
20916 PD W LAB 002 F 3-6PM DANCE STUDIO A Brading

 Contemporary
Using Humphrey/Limon principles as an underlying base, we will take a somatic and investigative approach to our contemporary dance practice. We will contemplate problem-solving for our specific bodies and finding the next level of our dancing while respecting the safety and wellbeing of the mind and body. We will experiment with yoga and other practices of mindfulness to discover what serves us in the dance space. During the semester we will be making personal tool boxes to be used across a wide range of movement and support students in university dance life and beyond. This class will be largely participation based and complemented with writing and reflection assignments concerning forms of contemporary dance and our own personal practice.

 Commercial Hip Hop
Through readings, videos, discussion, reflection, and physical practice, this course will address issues around race, privilege, and access in the commercialization of hip hop dance. We will learn the history and evolution of hip hop dance, learn hip hop dance terminology and techniques, and apply them in choreography. During class, we will also work on retention and execution of choreography, the art of freestyling and expression, audience engagement, and performing for the camera. Students will be required to attend one hip hop dance event/battle
outside of class time to gain greater understanding of hip hop culture.

Functional Training Lab
The functional training class helps to provide you with the strength, stability, and mobility you need to thrive in your dance life. You use basic functional movement patterns like pushing, pulling, hinging, squatting, rotating, carrying and gait patterns?walking and running?every day. Functional training utilizes exercises that improve your movement proficiency in these primary patterns to give you an edge so you can achieve your goals safely and with good health. Working on specific muscle groups will prepare you to have a better muscle respond in your Dance Tech Classes.

West-African
Course Description:
In this course, we will uncover the history, context, and techniques of several West-African rhythms and dances that derive from the African civilizations associated with the people of modern-day Ghana, Guinea, Mali, and Senegal. Throughout the semester we will focus on the polyrhythmic nature of the dances, songs, rhythms, folklore traditions, customs, and music. Together as we journey throughout the entirety of this course, we will grow to develop a deeper understanding and appreciation of West-African music, dance, and culture.

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Bienvenidos! (Welcome)! Start your weekend on Friday afternoon at 3:00 pm 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 South American and Central American music, poetry, literature and the visual arts. In this lab class, I will choreograph works especially for all of you, also I will encourage you to participate with ideas and perhaps to create materials that potentially could be included for the final presentation.

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Ballet
19926 PD W LAB 002 F 1-3PM DANCE STUDIO A Brading
Contemporary
Using Humphrey/Limon principles as an underlying base, we will take a somatic and investigative approach to our contemporary dance practice. We will contemplate problem-solving for our specific bodies and find the next level of our dancing while respecting the safety and wellbeing of the mind and body. We will experiment with yoga and other practices of mindfulness to discover what serves us in the dance space. During the semester we will be making personal tool boxes to be used across a wide range of movement and support students in university dance life and beyond. This class will be largely participation based and complemented with writing and reflection assignments concerning forms of contemporary dance and our own personal practice.

Improvisation
20488 PD W LAB 004 F 10-12PM DANCE STUDIO A Lin
Commercial Hip Hop
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**Contemporary**

Using Humphrey/Limon principles as an underlying base, we will take a somatic and investigative approach to our contemporary dance practice. We will contemplate problem-solving for our specific bodies and finding the next level of our dancing while respecting the safety and wellbeing of the mind and body. We will experiment with yoga and other practices of mindfulness to discover what serves us in the dance space. During the semester we will be making personal toolboxes to be used across a wide range of movement and support students in university dance life and beyond. This class will be largely participation based and complemented with writing and reflection assignments concerning forms of contemporary dance and our own personal practices.

**Improvisation**

Through readings, videos, discussion, reflection, and physical practice, this course will address issues around race, privilege, and access in the commercialization of hip hop dance. We will learn the history and evolution of hip hop dance, learn hip hop dance terminology and techniques, and apply them in choreography. During class, we will also work on retention and execution of choreography, the art of freestyling and expression, audience engagement, and preparing for the camera. Students will be required to attend one hip hop dance event/battle outside of class time to gain greater understanding of hip hop culture.

**Functional Training Lab**

The functional training class helps to provide you with the strength, stability, and mobility you need to thrive in your dance life. You use basic functional movement patterns like pushing, pulling, hinging, squatting, rotating, carrying and gait patterns?walking and running?every day. Functional training utilizes exercises that improve your movement proficiency in these primary patterns to give you an edge so you can achieve your goals safely and with good health. Working on specific muscle groups will prepare you to have a better muscle respond in your Dance Tech Classes.

**West-African**

Course Description:

In this course, we will uncover the history, context, and techniques of several West-African rhythms and dances that derive from the African civilizations associated with the people of modern-day Ghana, Guinea, Mali, and Senegal. Throughout the semester we will focus on the polyrhythmic nature of the dances, songs, rhythms, folklore traditions, customs, and music. Together as we journey throughout the entirety of this course, we will grow to develop a deeper understanding and appreciation of West-African music, dance, and culture.

**Objectives and Learning Outcomes:**

- Students will gain integrated skills in West-African music, dance performance, and creativity through an influential and holistic learning experience.
- Students will learn the importance of this dance genre as an ancient communication system rooted in the relationship between the drummer and the dancer.
- Students will learn the basic fundamental techniques of West-African music and dance forms.
- Students will acquire analytical, interpretative, evaluative, appreciative, and critical skills relating to West-African music, dance, and culture.
- Students will develop collaborative skills needed for teamwork, community building, and social harmony.

**Bienvenidos! (Welcome)!** Start your weekend on Friday afternoon at 3:00 pm dancing to the sounds of Latin American music.
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 South American and Central American music, poetry, literature and the visual arts. In this lab class, I will choreograph works especially for all of you, also I will encourage you to participate with ideas and perhaps to create materials that potentially could be included for the final presentation.

442 Screendance 3.00
20516 PD W LEC 001 F 9-12PM LEC RM 1 MLB Brissey
This course examines the creative potential of integrating choreography and technology through projects in experimental video, social media and the internet, interactive performance, improvisation, and sound design. Supplemental screenings and readings will provide historical and theoretical context to inspire new possibilities for pursuing mediated choreographic practices. We will broadly consider the term "choreography" to research the ways in which bodies and information move through time and space via a multitude of technological infrastructures. We will discuss what becomes identified as "technology" and the social, political, and ecological consequences of engaging with these systems. Critical attention will be given to the relationship between technology and visibility, specifically in regard to race, gender, sexuality, class, and ability. Through what labor do technological systems come into the world and who benefits from their being here? Each student will write a treatment for a final project of their own design which can take shape in a variety of forms: video, essay, live performance, etc. As a class, we will organize a public event to share final projects with the community.

482 Teaching Methods 3.00 ENFORCED
20277 PDRW LEC 001 MW 9-11AM ARR Beck
Dance 482.001 will meet in Studio A
34625 PDR LEC 002 TTH 4-6PM ARR West
Dance 482.002 will meet in Studio A.

502 RIA 2 3.00 ENFORCED
34629 PDR LEC 001 MW 9-1030AM DANCE STUDIO D Kane
505 RIA 3 1.00 ADVISORY
27801 PD LEC 002 ARR ARR Kane
27802 PD LEC 003 ARR ARR Wilson
27803 PD LEC 004 ARR ARR Chavasse
27804 PD LEC 005 ARR ARR Deyoung Jr
27805 PD LEC 006 ARR ARR Croft
27806 PD LEC 007 ARR ARR Sparling

13093 PDRW LAB 001 MW 2-330PM DANCE STUDIO A Godboldo
20535 PD W LAB 002 TTH 10-1130AM DANCE STUDIO A Bascom
21308 PD LAB 003 F 3-5PM DANCE STUDIO A Torijano
Modern Lab

28077 PD W LAB 004 TTH 12-130PM DANCE STUDIO A Frazier

519 IS: Dance Technique 1.00-3.00 ADVISORY
19931 PD W LAB 001 MW 6-7PM DANCE STUDIO A Matijas-Mecca
Joel VM Rep
20545 PD W LAB 002 MW 7-8PM DANCE STUDIO A Matijas-Mecca
Carlos PG Rep
28240 PD LAB 003 TTH 6-7PM DANCE STUDIO A DeJesus

WN 2020 2270 03-05-2020 12:03 22412849
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School of Music, Theatre and Dance

Arts Administration (ARTSADMN)

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<td>406</td>
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Arts Leadership Forum

This course is designed to provide access to the greatest leaders from the fields of performing arts, arts administration, arts leadership and philanthropy. Students will have the opportunity for multi-faceted in-depth engagement and reflection. The premise of the class is to ignite learning through inspiration from and role modeling by successful leaders and direct mentorship. Students will meet with the visitor for a facilitated interactive experience and conversation, engage each speaker in a facilitated Q and A and process the materials in an interactive group discussion. Students will also write response pieces to each speaker, providing their own perspectives and takeaways from the absorbed material. Finally, as the final project, students will present a mini-lecture, engage in a peer Q and A and provide critical feedback. The response papers will be submitted after each visit. Each visitor may also assign a reading for the preparatory discussion, and possibly, for the visit itself.

29301 P LEC 002 TH 1230-230PM 2038 MOORE Dworkin
29302 P LEC 002 TH 1230-230PM 2038 MOORE Dworkin

IDEA:Incl/Div in Educ Artists

Students will participate in SphinxConnect, shadow Sphinx staff and plan webinars and other post-conference work, gain an inside view on DEI work, and reflect on how DEI practices may be relevant to their careers.

34715 P LEC 003 M 630-830PM 2044 MOORE Arthur

Arts Entrepreneurship Essentials is a comprehensive journey that begins with developing one’s mindset of conceiving, vetting and formulating an idea and then implementing them into successful, sustainable creative ventures. Students will have the opportunity to explore entrepreneurship through the prism of their own arts or life focus and specialization. Required texts, coupled with class lectures, collaborative projects and engaged discussions are designed to help develop the core skills necessary to awaken and develop young creative entrepreneurs. As a practicing arts and social entrepreneur having founded several successful, ongoing creative initiatives and organizations, Professor Dworkin will introduce a unique and practical course informed by his own life experiences, including a thriving non-profit annual budget and a 20-year track record. As an overall philosophy, this course demystifies entrepreneurship and illustrates how an authentic passion and commitment to creativity and learning serve as key pillars for a successful, fulfilling life. The final Capstone Project will tie together the material covered in all modules, showcasing each student's ability to formulate and make the case for a creative venture.

426 | Arts Fundraising | 2.00 |
428 | Arts Leadership | 1.00 |
431 | Running Arts Orgs | 1.00 |
450 | Arts Entrep Esntls | 3.00 |

Arts Administration (ARTSADMN)

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Art/Social Action: CommPerform

What are the tools needed to harness the power of the performing arts to impact social change? How do theatre, dance, music and interdisciplinary art forms offer critical sites for transforming cultural and social structures within society? This course will explore a wide range of performance-based methods that serve as a catalyst for change. If you have ever wanted to learn more about specific social justice principles and how to incorporate them into your work, this is the course is for you.

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Baroque Cello (BARCELLO)

Bassoon (BASSOON)

Carillon (CARILLON)

Cello (CELLO)

Chamber Music (CHAMBER)

This course will meet in 2257 Moore
Clarinet (CLARINET)

111 Performance
26159 PI  REC 001  ARR ARR

Composition (COMP)

222 Composition
416 Sem Electron Mus
13057 PIRW SEM 001 TH 430-6PM ARR

422 Creative Comp
13058 P RW LEC 001 T 130-330PM 1378 SM Sheng

426 Adv Composition
13064 P R SEM 001 F 330-530PM 2044 MOORE Etezady

450 Undergrad Seminar
13065 PIRW SEM 001 TH 430-6PM ARR Santos

516 Sem Electron Mus
13068 PIRW SEM 001 TH 430-6PM ARR Santos

Conducting (CONDUCT)

315 Elem Conducting
22350 P REC 001 MWF 930-1030AM 1374 SM Frey

316 Elem Conducting
13079 P REC 001 MF 930-1030AM 1320 MOORE Snyder

501 Sem-Orch Conducting
13081 PI SEM 001 T 1230-230PM 1340 MOORE Kiesler

502 Dir Perf-Orch Cond
13082 PI SEM 001 T 1-1AM ARR Kiesler

503 Band & Wind Ens Cond
13083 P SEM 001 TTH 230-430PM 1374 SM Haithcock

505 Sem Choral Conduct
13085 P SEM 001 M 230-430PM 2044 MOORE Rogers Jr

506 Dir Perf Chorl Cond
13086 P SEM 001 ARR 1374 SM Rogers Jr
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<td>Early Music (EARLYMUS)</td>
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<td>335</td>
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**Double Bass (DBLBASS)**

**Ensemble (ENS)**

**Univ Orchestra**

**Univ Band**

**Marching Band**

**Univ Choir**

**Univ Chamber Choir**

**Arts Chorale**
<table>
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<tr>
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Students need only attend 2 of 3 class sessions per week. Beginning students are permitted to enroll in the intermediate level.
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RACKHAM STUDENTS ELECT MUSIC PERFORMANCE 882 INSTEAD.

U of M Schedule of Classes Page 364 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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Beginning Guitar

Guitar 111 is a course for beginners - those who have never played guitar. If you do not own a guitar one will be provided for you to use during the semester. Students with more than a year of playing experience should not register for the course.

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 covered 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.

**Harp (HARP)**

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**U of M Schedule of Classes**

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WN 2020 2270 03-05-2020 12:03 22412849
Jazz & Improvisational Studies (JAZZ)

113 Jazz Piano 27701 Jazz Piano 001 W 930-1030AM ARR Rowe
221 Basic Musicianship II 16618 PI LEC 001 TTH 830-1030AM 2058 MOORE Kirschenmann, Wood
450 Complativ Prac Sem 16751 PI SEM 001 ARR ARR Travers
Online offering
20003 PI SEM 002 TH 430-630PM 202 STRNS Travers
25121 PI SEM 003 TH 630-830PM 202 STRNS Travers
454 Special Topics 25964 P LEC 002 T 930-1030AM 1378 SM Okazaki

Fund Rhythm B
This is a companion course to "Fundamentals of Rhythm A; the grid," but does not require this course as a prerequisite. "Fundamentals of Rhythm A" explored rhythms on human made grid systems such as even pulses, quantized subdivisions, metric cycles and song forms. This course will look at rhythms that more generally fall "off the grid" or "in the cracks." This includes rhythms of speech, gesture, and rhythms of the natural world. In musical applications, we will look at the some of the varieties of experience that fall into the category of "feel," including groove, flow, pocket and swing. As in the first semester course, students will not bring instruments to class. All work will be done with singing and clapping in order to developing, hearing, memory, and internalization
33996 PI LEC 003 ARR ARR Travers
Online
36579 PI LEC 004 T 430-630PM 2032 MOORE Sarath

Integral Jazz Mysticism
455 Creat&Consciousness 22349 PI LEC 002 W 630-830PM 202 STRNS Travers
37474 PI LEC 003 TH 5-7PM 201 STRNS Sarath

Black Music Matters
462 Jazz Trom Ens 31573 PI LAB 001 ARR ARR Wilson
465 Ind Study 22815 PI LEC 002 W 430-630PM 202 STRNS Travers

Inner Business of Music
550 Contemplatv Prac Sem 22896 PI SEM 001 ARR ARR Travers
25122 PI SEM 003 TH 630-830PM 202 STRNS Travers

554 Jazz Special Topics 22800 PI SEM 001 W 430-630PM 202 STRNS Travers
25965 P SEM 002 T 930-1030AM 1378 SM Okazaki

This is a companion course to "Fundamentals of Rhythm A; the grid," but does not require this course as a prerequisite. "Fundamentals of Rhythm A" explored rhythms on human made grid systems such as even pulses, quantized subdivisions, metric cycles and song forms. This course will look at rhythms that more generally fall "off the grid" or "in the cracks." This includes rhythms of speech, gesture, and rhythms of the natural world. In musical applications, we will look at the some of the varieties of experience that fall into the category of "feel," including groove, flow, pocket and swing. As in the first semester course, students will not bring instruments to class. All work will be done with singing and clapping in order to developing, hearing, memory, and internalization
36580 PI SEM 004 T 430-630PM 2032 MOORE Sarath

Integral Jazz Mysticism
555 Creat&Consciousness 22815 PI LEC 002 W 630-830PM 202 STRNS Travers
37475 PI LEC 003 TH 5-7PM 201 STRNS Sarath

Black Music Matters
567 Jazz Improv II 22843 PI LAB 001 TTH 1230-130PM 1370 SM Rowe
572 Jazz Improv IV 22813 PI LAB 001 TTH 130-230PM 1370 SM Bishop

577 Adv Jazz Improv 22814 PI LEC 001 M 1030-1230PM 3219 MOORE Lucas

Inner Business of Music

Music Education (MUSED)

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**Musicology (MUSICOL)**

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31316  P DIS 005  T  4-5PM  806 BMT  Sukumaran
31317  P DIS 006  T  11-12PM  806 BMT  Nissen
31318  P DIS 007  W  11-12PM  706 BMT  West
31319  P DIS 008  T  3-4PM  806 BMT  Sukumaran
31320  P DIS 009  M  3-4PM  806 BMT  West
31321  P DIS 010  T  9-10AM  806 BMT  Nissen

130  Operal
31322  P W  LEC 001  TTH  1130-1PM  1350 MOORE  Stein

140  History of Music
Students are auto-enrolled in lecture when they elect a discussion.
13159  A  LEC 001  MW  930-1030AM  1340 MOORE  Clague
13160  P R DIS 002  F  130-230PM  2044 MOORE  Zhu
13161  P R DIS 003  F  130-230PM  2038 MOORE  Jones
13162  P R DIS 004  TH  930-1030AM  1374 SM  Castillo Rodriguez
13163  P R DIS 005  TH  1030-1130AM  2038 MOORE  Castillo Rodriguez
13164  P R DIS 006  TH  830-930AM  2020 MOORE  Castillo Rodriguez
13165  P R DIS 007  F  930-1030AM  2026 MOORE  Zhu
13166  P R DIS 008  F  930-1030AM  2038 MOORE  Zhu
13167  P R DIS 009  F  930-1030AM  1370 SM  Zhu

240  History of Music
Students are auto-enrolled in lecture when they elect a discussion.
13168  A R LEC 001  MW  830-930AM  1340 MOORE  Whiting
13169  P R DIS 002  F  830-930AM  1374 SM  Franzen
13170  P R DIS 003  TH  930-1030AM  1370 SM  Franzen
13171  P R DIS 004  TH  830-930AM  1370 SM  Heinlein
17076  P R DIS 005  F  930-1030AM  3213 MOORE  Heinlein
14149  P R DIS 006  F  1030-1130AM  2026 MOORE  Heinlein
15030  P R DIS 007  TH  1030-1130AM  1370 SM  Fransen

306  Special Course
31323  P LEC 001  MW  10-1130AM  806 BMT  Borders

346  History of Music
Western Music 1750 to present
29968  P LEC 002  TTH  3-430PM  STAMPS  Getman

405  Special Course
22182  P LEC 001  TTH  1-230PM  706 BMT  Kaur

406  Special Course
19785  P LEC 001  MW  10-1130AM  806 BMT  Borders

407  Special Course
27964  P LEC 001  TTH  10-1130AM  3213 MOORE  Fulcher

408  Special Course
23014  P LEC 001  TTH  230-4PM  2020 MOORE  Lam

417  History of Jazz
31324  P LEC 001  MW  1-230PM  706 BMT  Borders

481  Special Projects
1  IND +  A R R

502  Res Techniques
Practical Bibliographical and Research Techniques
13173  PIR SEM 001  MW  10-1130AM  3213 MOORE  Mengozzi

505  Special Course
22183  P LEC 001  TTH  1-230PM  706 BMT  Kaur

506  Special Course
19786  P LEC 001  TTH  230-4PM  3213 MOORE  Stein

507  Special Course
18845  P LEC 001  TTH  10-1130AM  3213 MOORE  Fulcher

508  Special Course
23013  P LEC 001  TTH  230-4PM  2020 MOORE  Lam
## Music Performance (MUSPERF)

NOTE: STUDENTS ELECTING COURSES NUMBERED 591, 891, 990, AND 995 MUST FILL OUT APPLICATION FOR INSTRUCTION IN MUSIC PERFORMANCE AT 2277 SCHOOL OF MUSIC DURING REGISTRATION.

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### Music Performance (MUSPERF)

This course connects undergraduate students directly to the touring, world-class artists who perform music, theater, and dance on the U-M campus. Students will attend live performances, talk with the artists and the arts administrators who help get them here, and explore how the performing arts are an integral part of our lives and the world at large. Class will include lectures (including some by guests and visiting artists), weekly discussion sections, required attendance at evening performances, interactive classroom activities, weekly readings, reaction papers about the performances, and group presentations and/or performances from students in class.

Students will attend live performances of:

- Urban Bush Women's Hair & Other Stories
- Underground Railroad Game, a daring new theatre work about race in the United States
- singer-songwriter Gabriel Kahane's new song cycle Book of Travelers
- an opera in concert production of the Gershwin's Porgy and Bess
- Company Wang Ramirez's Borderline, a contemporary dance work fusing cultures and styles
- a concert at the Michigan Theater capturing the blues tradition in the Piedmont region of the United States
- the dance-theatre work of Nederlands Dans Theater
- legendary jazz pianist Chick Corea with the Lincoln Center Orchestra

These performances constitute the course's primary 'textbook' and the full package of tickets is available to students enrolled in the course for the dramatically reduced rate of $120. Engaging Performance is made possible through a grant from the Andrew W. Mellon Foundation and a partnership between the University of Michigan and the University Musical Society (UMS)

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### U of M Schedule of Classes

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CAT# Course Title CR PREREQ LAB FEE
Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR

26269 PI LEC 016 ARR ARR Katz
31075 PI LEC 017 ARR ARR Hahn
30920 PI LEC 026 ARR ARR Kiesler
31135 PI LEC 030 ARR ARR Sarath
31034 PI LEC 157 ARR ARR Belen
31082 PI LEC 163 ARR ARR Coade
26486 PI LEC 172 ARR ARR Berofsky
26282 PI LEC 293 ARR ARR Porter

440 Senior Recital
I IND + ARR ARR 0.00
491 Independent Study
I IND + ARR ARR 1.00-4.00
540 Masters Recital
I IND + ARR ARR 0.00
541 Mstr Chamber Recital
I IND + ARR ARR 0.00
550 Performance Seminar
I IND + ARR ARR 1.00 ADVISORY
21926 PI SEM 161 ARR ARR Holland
21927 PI SEM 162 ARR ARR Schotten
28282 PI SEM 163 ARR ARR Coade
21928 PI SEM 164 ARR ARR Jennings
21929 PI SEM 172 ARR ARR Berofsky
21930 PI SEM 178 ARR ARR Aaron
38508 PI SEM 181 ARR ARR Eldan
21931 PI SEM 232 ARR ARR Halen
591 Directed Perform
IR IND + ARR ARR 2.00-4.00 ADVISORY
640 Specialist Recital
I IND + ARR ARR 0.00
781 Prof&Acad Developmt
P R SEM 001 F 930-1130AM 3219 MOORE Eldan

Dates per instructor
24729 P SEM 002 ARR ARR Katz
27312 P SEM 005 T 7-9PM 2038 MOORE Gascho
13183 P SEM 006 ARR ARR Helton
30903 P SEM 007 ARR ARR Burrow
13184 P SEM 008 W 1230-130PM 3213 MOORE Burrow

Winds & Percussion
800 Chamber Music
IR IND + ARR ARR 1.00-4.00 ADVISORY
881 Large Ensemble
IR IND + ARR ARR 1.00-4.00 ADVISORY
882 Contemp Direct Ens
13187 PIR SEM 001 TTH 1030-1230PM 1380 SM Slywotzky
883 Pro Chamber Mus&Acc
IR IND + ARR ARR 2.00-6.00 ADVISORY
900 Preliminary Exam
IR IND + ARR ARR 1.00
990 Diss-Preced
IR IND + ARR ARR 1.00-8.00 ADVISORY
995 Diss-Cand
IR IND + ARR ARR 8.00 ENFORCED

Musical Theatre (MUSTHTRE)
124 Ballet Mus Thea II
13193 PIR LAB 001 MW 9-1030AM 1455 WDC Goodrich, DeJesus
124 Ballet Mus Thea II
P R LAB 001 F 9-1030AM POWER REHEARSAL RM
134 Intro Mus Thtr II I
13194 PIR LAB 001 TTH 430-545PM 2044 MOORE Wagner
152 Tap Dance II
13195 PIR LAB 001 TTH 915-1045AM 1455 WDC Randazzo
207 Ind Study
I IND + ARR ARR 1.00-3.00 ADVISORY
236 Performance II
13197 PI LAB 001 MW 1230-230PM 1455 WDC Madama, DeBord
13198 PI LAB 002 MW 230-430PM 1455 WDC Madama, DeBord
254 Dance Styles II
13199 PIR LAB 001 TTH 11-1230PM POWER REHEARSAL DeJesus
280 Prod Performance
13200 PI LAB 001 ARR ARR 1.00-3.00 ADVISORY
13201 PI LAB 002 ARR ARR DeBord, Goodrich
MY ONE AND ONLY
22592 PI LAB 003 T 11-1230PM 2439 WDC Walker
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"Music," Henry Wadsworth Longfellow once said, "is the universal language of humankind." Indeed, the belief that there is something language-like about music has long fascinated not only poets like Longfellow, but also scientists, philosophers, and thinkers from a variety of other backgrounds not to mention linguists and music theorists. This course builds on this age-old interest from an interdisciplinary perspective, to see how music and language are related, and how they are also different. So we will explore, for example, how music and language function in different cultural contexts, as described by anthropologists, and how they evolved, and allow us to think, express and be creative, as philosophers, psychologists and biologists have discussed and in the process, we will explore things as diverse as birdsongs and Beethoven symphonies, fractals and Neanderthal flutes, and grunge rhythms and the music of New Guinea. To help us ground our comparison of music and language, we will learn some linguistics too within a framework known as generative linguistics, developed by linguists like Noam Chomsky and we will see how this perspective suggests that music and language might actually be identical. Graduate students elect Theory 560.
"Music," Henry Wadsworth Longfellow once said, "is the universal language of humankind." Indeed, the belief that there is something language-like about music has long fascinated not only poets like Longfellow, but also scientists, philosophers, and thinkers from a variety of other backgrounds not to mention linguists and music theorists. This course builds on this age-old interest from an interdisciplinary perspective, to see how music and language are related, and how they are also different. So we will explore, for example, how music and language function in different cultural contexts, as described by anthropologists, and how they evolved, and allow us to think, express and be creative, as philosophers, psychologists and biologists have discussed and in the process, we will explore things as diverse as birdsongs and Beethoven symphonies, fractals and Neanderthal flutes, and grunge rhythms and the music of New Guinea. To help us ground our comparison of music and language, we will learn some linguistics too—within a framework known as generative linguistics, developed by linguists like Noam Chomsky and we will see how this perspective suggests that music and language might actually be identical. Graduate students elect Theory 560.

VIOLA

Performance 111 | Ind. + | Arr | Arr | 1.00-2.00
Performance 150 | Ind + | Arr | Arr | 2.00
Performance Lab 450 | Ind + | Arr | Arr | 1.00

Meet in Britton (1340 SM) on select Tuesdays for String Showcase

TRUMPET-CORNET (TRUM)

TROMBONE (TROMBONE)

Performance 219 | Ind + | Arr | Arr | 2.00-4.00

VIOLIN (VIOLIN)

Performance 111 | Ind + | Arr | Arr | 2.00 | ADVISORY
Performance 150 | Ind + | Arr | Arr | 2.00
Performance Lab 450 | Ind + | Arr | Arr | 1.00

Meet in Britton (1340 SM) on select Tuesdays for String Showcase
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### Theatre and Drama (THTREMUS)

#### Intro to Acting I
- **Class #**: 101
- **Code**: PI W REC 001
- **Sec**: MW
- **Days**: 3-5PM
- **Location**: 1435 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Traister
- **Note**: Students need to register on the wait list and attend the first two classes before they will be considered for an override for the course.

#### Intro to Acting II
- **Class #**: 102
- **Code**: PI W REC 001
- **Sec**: MW
- **Days**: 1-3PM
- **Location**: 1435 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Gomez
- **Note**: Students need to register on the wait list and attend the first three classes before they will be considered for an override for the course.

#### Acting II
- **Class #**: 182
- **Code**: PI REC 003
- **Sec**: MW
- **Days**: 1030-1230PM
- **Location**: 1415 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Packard

#### Intro Acting Camera
- **Class #**: 110
- **Code**: PI W REC 001
- **Sec**: MW
- **Days**: 130-330PM
- **Location**: 2415 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Maylie

#### Intro to Design
- **Class #**: 240
- **Code**: PIRW REC 001
- **Sec**: MW
- **Days**: 10-12PM
- **Location**: 2239 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Murphy

#### Intro Stage Management
- **Class #**: 245
- **Code**: PIRW REC 001
- **Sec**: MW
- **Days**: 930-11AM
- **Location**: 2439 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Uffner-Elliott

#### Intro Tech Thtr Prac
- **Class #**: 250
- **Code**: PIRW REC 001
- **Sec**: MW
- **Days**: 1-5PM
- **Location**: 2439 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Uffner-Elliott

#### Lighting Design I
- **Class #**: 261
- **Code**: PIRW REC 001
- **Sec**: MW
- **Days**: 930-11AM
- **Location**: 2439 WDC
- **CR**: 3.00
- **Fee**: ADVISORY
- **Instructor**: Murphy

#### Practicum I
- **Class #**: 251
- **Code**: PI W LAB 001
- **Sec**: ARR
- **Days**: ARR
- **Location**: Uffner-Elliott
- **CR**: 1.00
- **Fee**: ADVISORY

#### Practicum II
- **Class #**: 252
- **Code**: PI W LAB 002
- **Sec**: ARR
- **Days**: ARR
- **Location**: Berg
- **CR**: 1.00
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#### Lighting Design II
- **Class #**: 265
- **Code**: PIRW REC 001
- **Sec**: MW
- **Days**: 10-1130AM
- **Location**: 2413 WDC
- **CR**: 3.00
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#### Practicum III
- **Class #**: 261
- **Code**: PI W LAB 003
- **Sec**: ARR
- **Days**: ARR
- **Location**: Mountain
- **CR**: 1.00
- **Fee**: ADVISORY

#### Practicum IV
- **Class #**: 262
- **Code**: PI W LAB 004
- **Sec**: ARR
- **Days**: ARR
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- **CR**: 1.00
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The course will meet for 5 two-hour sessions during the Winter 2020 term and for 2 weeks in Cuernavaca Mexico during the Spring 2020 term. There is a fee if accepted into the program.
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Women in Shakespeare

15622  | PI    | SEM 007 | ARR | ARR |
15970  | PI    | SEM 008 | MWF | 1-3PM | B423 EQ |
P      | SEM 008 | MWF | 1-3PM | KEENE AUD EQ |

class meets in Keene Aud with RCHUMS 482.001

31454  | P    | REC 009 | F | 9-12PM | 2415 WDC |
25626  | P    | W REC 012 | TTH | 290-4PM | ARR |

100 Years of American Drama

33974  | PI    | REC 013 | T | 530-730PM | 2058 MOORE |

Out of the Blue Choir

33975  | PI    | REC 014 | ARR | ARR | Burk |

Prison Vocal Workshop

400    | Directed Reading | I | IND | ARR | ARR |
401    | Independent Study | I | IND | ARR | ARR |
403    | D & P Seminar | 21339 | REC 001 | F | 1-3PM | 2439 WDC |
Class meets with THTRMUS 404 in 2439 Walgreen Drama Center.

404    | D & P Seminar | 20700 | REC 001 | F | 1-3PM | 2439 WDC |

417    | Theatre Internship | I | IND | ARR | ARR |

426    | Arts Fundraising | 26242 | P W LEC 001 | MW | 430-530PM | 2443 WDC |

429    | Playwr Production | 33634 | P REC 001 | F | 12-3PM | 2415 WDC |

435    | Producing Amer Thtre | 18399 | P W REC 001 | MW | 130-3PM | B207 WDC |

443    | Directing Colloq I | 21260 | REC 001 | F | 1-3PM | 2439 WDC |

445    | Stage Mgt: Mus/Opera | 13280 | LAB 001 | ARR | ARR |

446    | Adv Stage Management | 24408 | REC 001 | MW | 130-3PM | 2443 WDC |

451    | Practicum VII | 13281 | LAB 003 | ARR | ARR | Mountain |
13282  | LAB 005 | ARR | ARR | ARR | Hahn |
13283  | LAB 006 | ARR | ARR | ARR | Myers |
13462  | P    | LAB 008 | ARR | ARR | Auletti |
13284  | P    | LAB 018 | ARR | ARR | Murphy |
13285  | P    | LAB 025 | ARR | ARR | Lindsay |
13286  | P    | LAB 028 | ARR | ARR | Reynolds III |
18917  | P    | LAB 030 | ARR | ARR | Brinker |
13287  | LAB 031 | ARR | ARR | Berg |
28338  | LAB 032 | ARR | ARR | Edwards |

456    | Lighting Design III | 21943 | P LEC 001 | TTH | 1130-1PM | 2413 WDC |

461    | Practicum VIII | 13288 | LAB 003 | ARR | ARR | Mountain |
13289  | LAB 005 | ARR | ARR | ARR | Hahn |
13290  | LAB 006 | ARR | ARR | ARR | Myers |
13191  | LAB 007 | ARR | ARR | ARR | Auletti |
13292  | LAB 012 | ARR | ARR | ARR | Murphy |
13293  | LAB 025 | ARR | ARR | ARR | Lindsay |
13294  | LAB 028 | ARR | ARR | ARR | Reynolds III |
18918  | P    | LAB 030 | ARR | ARR | Brinker |
13295  | LAB 031 | ARR | ARR | Berg |

463    | Intro to CAD | 21243 | P REC 001 | TTH | 230-4PM | 2239 WDC |

464    | Sc Paint for Theatr | 18319 | PI LAB 001 | TTH | 10-12PM | POWER CNTR |

466    | History of Decor | 33625 | P LEC 001 | MW | 3-430PM | 2443 WDC |

470    | Costume Design III | 27670 | PI LAB 001 | TTH | 130-3PM | 2233 WDC |

476    | Costume Crafts | 33627 | PI LAB 001 | MW | 1-3PM | 2233 WDC |

482    | Acting VIII:Showcase | 27480 | PI REC 001 | TTH | 330-530PM | 1415 WDC |
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Class meets with Thtemus 464 in the Power Center Scene Shop.

Meets in Walgreen Drama Center room 2233 with THTREMUS 470

Class meets with Thremus 464 in the Power Center Scene Shop.

Class meets with Thremus 464 in the Power Center Scene Shop.
Nursing School Of Nursing

Health Sciences (HS)

301 Expl Palliative Care 2.00
29004 P SEM 001 TH 430-630PM 1000 426NIB Harden, Mason

404 Gender Based Violence 2.00-3.00
28716 P SEM 001 TH 1-3PM 2000 426NIB Munro-Kramer

501 Expl Palliative Care 2.00
29005 P SEM 001 TH 430-630PM 1000 426NIB Harden, Mason

505 Team Based Decisions 2.00
23395 P REC 001 W 3-5PM 1000 426NIB Pardee, Saint Arnault

Registration is limited to Pharmacy, Social Work, Dentistry, Medical, and Nursing students who are eligible to enroll. Students will be assigned to an interdisciplinary group that will rotate between different buildings across campus. An email notifying students about their group and room assignments for the first class meeting will be sent from the School of Pharmacy before class begins.

506 Healthcare Theatre 3.00
33930 P DIS 001 TH 1-4PM 1240 426NIB Lee

510 Health Informatics 3.00
31843 P LEC 001 TH 1-4PM ARR Abbott

HS 510 will meet on January 9, February 6, March 12, and April 2 in 2184 400NIB.

540 Trauma Basics 1.00
30763 PDR SEM 001 ARR ARR Herrenkohl

This course is available only to Nursing, Social Work, and Education students. Nursing students must request enrollment under SW 540. SW students must enroll under SW 540, and education students must enroll under EDUC 540. This course is by departmental consent only. Nursing students should complete the following form to request permission to enroll in HS 540:
https://docs.google.com/forms/d/e/1FAIpQLScT82Vb6ej-x4G2T2107uRtS9kPZhP2WpDboOHZ31U3YlzLz/viewform.

This is a hybrid course, which means that you will have a combination of web-based class sessions and face-to-face class sessions. This course will meet in person, in class on February 22, and all pre-learning work must be complete prior to this required session.

542 Trauma Systems 1.00 ENFORCED
32086 P R SEM 001 ARR ARR Seng

HS 542 will meet together with SW 542 and EDUC 542. The course will meet in person for a one-day workshop on Saturday, February 15 from 8am-5pm in 426 North Ingalls Building room 1000. Please refer to Canvas or contact the course instructor for the additional required class assignments that must be completed outside of the in-person meeting.

741 Interdisc Prob Solv 3.00 ADVISORY
31999 PD LAB 001 W 315-415PM ARR Crane, Wu, Carr

Connected Vehicles Stdzn Diff

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider whether CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv 3.00 ADVISORY
31900 PD LAB 002 W 315-415PM ARR Scarnecchia, Munro-Kramer, Carr

741 Interdisc Prob Solv 3.00 ADVISORY
P LAB 002 W 430-630PM 0220 JEFFRIES

Campus Sex. Misconduct Prev.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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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NURS 545 will be taught in the first half of the winter term.
NURS 545 will be taught in the second half of the winter term.
NURS 533 will meet on January 10, February 7, March 13, and April 3 in 1250 426NIB.
NURS 539 will meet on January 9, February 6, March 12, and April 2 in 3151 400NIB.
NURS 556 will meet on February 5 and February 19 from 1pm-4pm in 1191 400NIB.
NURS 556 will meet on February 5, and February 19 from 1pm-4pm in 1191 400NIB.
NURS 679 will meet on January 16, January 30, February 13, February 27, March 19, April 9, and April 16 in 1250 426NIB.
NURS 683 will meet in 3151 400NIB from 8am-11am on January 16, February 13, March 19, and April 9.
NURS 683 will also meet in the CLC on February 13 from 12pm-4pm, March 17 from 7am-7pm, April 8 from 7am-7pm, and April 15 from 7am-7pm.
NURS 687 will meet from 8:30am-4:30pm on January 8, January 15, January 16, January 17, April 22, April 23, and April 24 in 3152 400NIB. NURS 677 will also meet from 8:30am-12:30pm on January 10 in 3152 400NIB and from...
### Professional Nursing Education (PNE)

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**Notes:**
- The clinical location for PNE 203 will be St. Joseph Mercy 4E.
- The clinical location for PNE 210 will be UM Hospital 7A.
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The clinical location for PNE 211 will be the Ann Arbor Veteran's Hospital 6S.
The clinical location for PNE 212 will be the Ann Arbor Veteran's Hospital 6S.
The clinical location for PNE 213 will be the Ann Arbor Veteran's Hospital 5E.

**PNE 214: Ther Nurs Care I Cln**
CR: 4.00
Location: 5A UM HOSP
Instructor: Sara

The clinical location for PNE 221 will be the Ann Arbor Veteran's Hospital 6S.
The clinical location for PNE 222 will be the Ann Arbor Veteran's Hospital 6S.

**PNE 223: Ther Nurs Care I Cln**
CR: 4.00
Location: Arr
Instructor: Keune

The clinical location for PNE 223 will be St. Joseph Mercy 4E.

**PNE 301: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Schacke

PNE 301 will meet during the first half of the term. Students will attend SIMS on Wednesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 302: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Schacke

PNE 302 will meet during the second half of the term. Students will attend SIMS on Wednesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 303: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Murtha

PNE 303 will meet during the first half of the term. Students will attend SIMS on Mondays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 304: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Murtha

PNE 304 will meet during the second half of the term. Students will attend SIMS on Mondays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 305: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Bradshaw

PNE 305 will meet during the first half of the term. Students will attend SIMS on Tuesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 306: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Bradshaw

PNE 306 will meet during the second half of the term. Students will attend SIMS on Tuesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 307: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Buslawski

PNE 307 will meet during the first half of the term. Students will attend SIMS on Tuesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 308: Repr Health Cln**
CR: 4.00
Location: WOMEN'S HOSP
Instructor: Buslawski

PNE 308 will meet during the second half of the term. Students will attend SIMS on Tuesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 309: Repr Health Cln**
CR: 4.00
Location: ARR
Instructor: Antilla

The clinical location for PNE 309 will be Henry Ford Health System - West Bloomfield Hospital. PNE 309 will meet during the first half of the term. Students will attend SIMS on Wednesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 310: Repr Health Cln**
CR: 4.00
Location: ARR
Instructor: Antilla

The clinical location for PNE 310 will be Henry Ford Health System - West Bloomfield Hospital. PNE 309 will meet during the second half of the term. Students will attend SIMS on Wednesdays from 8am-2pm. This PNE requires registration for NURS 352.

**PNE 326: Child Hlth&Illn Cln**
CR: 4.00
Location: 11W Mott
Instructor: Russell

The clinical location for PNE 326 will be 11W Mott. PNE 326 will meet during the first half of the term. Students will attend SIMS on Wednesdays from 8am-4pm. This PNE requires registration for NURS 354.

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The clinical location for PNE 376 will be UM Hospital 9C/8ECAP. PNE 376 will meet during the first half of the term. Students will attend SIMS on Mondays from 2pm-6pm. This PNE requires registration for NURS 358.

The clinical location for PNE 377 will be UM Hospital 9C/8ECAP. PNE 377 will meet during the second half of the term. Students will attend SIMS on Mondays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 378 will be UM Hospital 9C/8ECAP. PNE 378 will meet during the first half of the term. Students will attend SIMS on Mondays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 379 will be UM Hospital 9C/8ECAP. PNE 379 will meet during the second half of the term. Students will attend SIMS on Mondays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 380 will be UM Hospital 9C/8ECAP from 1/16/20 through 1/31/20 and community experiences from 2/6/20 through 2/21/20. PNE 376 will meet during the first half of the term. Students will attend SIMS on Thursdays from 2pm-6pm. This PNE requires registration for NURS 358.

The clinical location for PNE 381 will be UM Hospital 9C/8ECAP from 3/12/20 through 3/27/20 and community experiences from 4/2/20 through 4/17/20. PNE 381 will meet during the second half of the term. Students will attend SIMS on Thursdays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 382 will be UM Hospital 9C/8ECAP. PNE 382 will meet during the first half of the term. Students will attend SIMS on Thursdays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 383 will be UM Hospital 9C/8ECAP. PNE 383 will meet during the second half of the term. Students will attend SIMS on Thursdays from 8am-12pm. This PNE requires registration for NURS 358.

The clinical location for PNE 384 will be UM Hospital 9C/8ECAP from 1/16/20 through 1/31/20 and community experiences from 2/6/20 through 2/21/20. PNE 384 will meet during the first half of the term. Students will attend SIMS on Tuesdays from 1pm-5pm. This PNE requires registration for NURS 358.

The clinical location for PNE 385 will be UM Hospital 9C/8ECAP from 3/12/20 through 3/27/20 and UM Hospital 9C/8ECAP from 4/2/20 through 4/17/20. PNE 385 will meet during the second half of the term. Students will attend SIMS on Tuesdays from 1pm-5pm. This PNE requires registration for NURS 358.

The clinical location for PNE 401 include Ann Arbor, Plymouth, Brighton, and Michigan Medicine MVN.

The clinical location for PNE 402 include Project Healthy, Botswana video conference, and American Indian Center video conference.

The clinical location for PNE 403 is the Washtenaw County Health Department.

The clinical location for PNE 404 is the Washtenaw County Health Department.

The clinical locations for PNE 405 include Ypsi Head Start, MOW, and India video conference.

The clinical location for PNE 406 include Ypsi Head Start, MOW, and India video conference.

The clinical location for PNE 407 is PACE.

The clinical locations for PNE 406 include Ypsi Head Start, MOW, and India video conference.
### The clinical location for PNE 408 is the Chelsea Retirement Communities (Glazier).

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Officer Education Programs

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Students participating in Air Force ROTC need to register for the lab section. Please contact the department at 734-764-2403 with questions.
### Army Officer Education Program

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  - 18694: P LEC 002 T 8-9AM ARR Groller
  - 13583: A LAB 003 TH 4-6PM G390 DENT Groller

- **Leadership Environments (202)**:
  - 13584: P LEC 001 TH 8-10AM 1509 NUB Moreno, Groller
  - 13585: P LEC 002 W 10-12PM ARR Moreno, Groller
  - 13586: A LAB 003 TH 4-6PM ARR Moreno, Groller
  - 23038: P LEC 004 F 10-12PM ARR Moreno, Groller

- **Lead Small Org II (302)**:
  - 13587: P R LEC 001 T 8-10AM 1624 CHEM Groller, Moreno
  - 13588: P R LEC 002 T 8-10AM ARR Groller, Moreno
  - 18695: A R LAB 003 TH 4-6PM ARR Groller, Moreno

- **Ldrship & Mgt (401)**:
  - 38513: PDR DIS 001 ARR ARR Dye

- **Mil Prof&Ethics (402)**:
  - 13589: P R LEC 001 TH 8-10AM 1624 CHEM Dye, Moreno
  - 13590: P R LEC 002 T 1-3PM ARR Dye, Moreno
  - 22008: A R LAB 003 TH 4-6PM ARR Dye

- **Ind Stdy-Dir Rdg (499)**:
  - 1W IND + ARR ARR
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Pharmacy

College Of Pharmacy

Clinical Pharmacy Translational Science (CPTS)

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Pharmacogenomics 3.00

This course will meet in room 3066 in the College of Pharmacy Building.

Pharmacogenomics 3.00

This course will meet in room 3066 in the College of Pharmacy Building.

Pharmacy Informatics 3.00 ADVISORY

This course will meet in room 3066 in the College of Pharmacy Building.

Clin Pharm Seminar 1.00 ADVISORY

This course will meet in room 3066 in the College of Pharmacy Building.

Diss-Precand 1.00-8.00 ADVISORY

This course will meet in room 3066 in the College of Pharmacy Building.

Diss-Cand 8.00 ENFORCED

This course will meet in room 3066 in the College of Pharmacy Building.

Medicinal Chemistry (MEDCHEM)

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Course prerequisite- Biochemistry with a grade of C- or higher.

BPS Laboratory 3.00 ADVISORY, ENFORCED

Contact ChemicalBiology@umich.edu for registration inquiries.

UG Research Med Chem 3.00 ADVISORY

Contact ChemicalBiology@umich.edu for registration inquiries.

Chemical Biology II 1.00-6.00 ADVISORY

Contact ChemicalBiology@umich.edu for registration inquiries.

Research Data 2.00 ADVISORY

Contact ChemicalBiology@umich.edu for registration inquiries.

RCRS 0.50

Contact ChemicalBiology@umich.edu for registration inquiries.

Meets monthly, see CANVAS site for class schedule.

Research Data Analy 2.00

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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. Pharmacy 503, PubHlth 503, Social Work 573, Kines 581, and MoveSci 481 are cross listed courses. If you would like to register, please send a request (including your student ID#) to: ServiceForHealth@umich.edu.
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**Pharmaceutical Sciences (PHARMSCI)**

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*Additional information regarding the number of seminars students will be required to attend will be provided at the first class session. In person class meetings will be held on 1/13, 2/17, and 3/16.*
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**U of M Schedule of Classes Page 400 of 481**

**WN 2020 2270 03-05-2020 12:03 22412849**
# Public Health
## Biostatistics Department
### Biostatistics (BIOSTAT)

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**STUDENTS MUST ELECT LAB AND LECTURE SECTIONS.**

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Contact Nicole Fenech (fenechn@umich.edu) or Fatma Nedjari (fned@umich.edu) to obtain permission - if needed.

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Only Biostatistics students should be able to register directly. All non-Biostats students should e-mail the course instructor for an override.

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Contact Nicole Fenech (fenechn@umich.edu) or Fatma Nedjari (fned@umich.edu) to obtain permission - if needed.

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# Environmental Health Sciences

## Environmental Health Sciences (EHS)

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### U of M Schedule of Classes

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HMP Executive Masters Students only.

| 603    | Managing Health Care                | 3.00| ADVISORY        |         |
| 13411  | P RW LEC 001 F 9-12PM 1152 SPH2     | 3.00| ADVISORY        |         |
| 606    | Mgt Acctg H C Admin                 | 3.00| ADVISORY        |         |
| 27184  | P W LEC 001 10-1130AM 1655 SPH1A    | 3.00| ADVISORY        |         |
| 606    | Mgt Acctg H C Admin                 | 3.00| ADVISORY        |         |

This course will meet in 1655 SPH1 on most Thursdays.

On the following Thursdays the course will meet in G020 SPH2: January 9th, February 6th, February 13th, March 12th, March 26th, and April 9th.

| 609    | Spc Tips Corp Finance               | 3.00| ADVISORY, ENFORCED |         |
| 27185  | P R SEM 001 F 12-130PM 3755 SPH1    | 3.00| ADVISORY, ENFORCED |         |
|        | Designed for MPH and MHSA students in HMP wishing to learn or review financial management skills at their own pace in a supportive, collaborative environment. Prerequisites are HMP graduate standing and a course in or knowledge of financial accounting. |         |         |

| 611    | Popul Hth Infrmcs                   | 3.00| ENFORCED        |         |
| 23520  | P RW LEC 001 W 4-7PM 3755 SPH1      | 3.00| ENFORCED        |         |
| 619    | Health Pol Process                  | 3.00| ADVISORY        |         |
| 32449  | P LEC 001 M 130-3PM 2610 SPH1A      | 3.00| ADVISORY        |         |
| 619    | Health Pol Process                  | 3.00| ADVISORY        |         |
| 28624  | P R DIS 001 F 12-130PM 3755 SPH1    | 1.00| ADVISORY        |         |
| 622    | Qualitative Methods                 | 3.00| ADVISORY        |         |
| 32450  | P LEC 001 TH 3-6PM 1122 SPH2        | 3.00| ADVISORY        |         |
| 624    | Health Policy in Dev                | 3.00| ADVISORY        |         |
| 22449  | P W LEC 001 W 3-6PM 1152 SPH2       | 3.00| ADVISORY        |         |
| 626    | Race,ETH,Cult,Policy                | 3.00| ENFORCED        |         |
| 32451  | P R SEM 001 F 3-6PM 1138 SPH2       | 3.00| ENFORCED        |         |
| 631    | Hlth Ins&Paymnt Syst                | 3.00| ENFORCED        |         |
| 29403  | P RW LEC 001 TH 9-12PM 1123 SPH2    | 3.00| ENFORCED        |         |
|        | Second year standing in HMP required. Must have completed HMP 600 and HMP 660 at minimum. |         |         |

Section 777 is for HMP Executive Masters Program students only.

| 638    | Meas & Monit Pop Hlt                | 3.00| ADVISORY        |         |
|        | This course will meet in the HMP N. Conference Room on 1/12/17 and 3/16/17. All other dates, this course will meet in M1170 SPH II |         |         |

| 639    | Immigration & Heal                 | 3.00| ADVISORY        |         |
| 29885  | P R SEM 001 F 9-12PM 1123 SPH2      | 3.00| ADVISORY        |         |
| 643    | Managing People                     | 3.00| ADVISORY        |         |
| 28622  | P RW LEC 001 T 9-12PM 2695 SPH1A    | 1.50| ADVISORY        |         |
| 646    | Leadership Dev                      | 3.00| ADVISORY        |         |
| 30580  | P SEM 001 M 3-6PM 2610 SPH1A        | 3.00| ADVISORY        |         |
| 652    | Health Law                          | 3.00| ADVISORY        |         |
| 30578  | PDR LEC 001 ARR                    | 3.00| ADVISORY        |         |

Reduced credit program students only

| 29404  | PD LEC 777                         | ARR| ARR Marcus      |         |
|        | Reduced credit program students only| 3.00|                |         |

HMP Executive Masters students only.

| 653    | Law & Public Health                 | 3.00| ADVISORY        |         |
| 25176  | P RW SEM 001 M 3-6PM 1152 SPH2      | 3.00| ADVISORY        |         |
| 660    | Economics of HMP I                  | 3.00| ADVISORY        |         |
| 28623  | P SEM 001 MW 8-10PM 1655 SPH1A      | 3.00| ADVISORY        |         |
| 661    | Mgmt in Health Info                 | 3.00| ADVISORY        |         |
| 29069  | P W SEM 001 T 430-730PM 1255 NQ     | 4.00| ADVISORY        |         |
| 662    | Econ Hth Mgt Policy                 | 3.00| ADVISORY        |         |
| 30579  | PDR LEC 001 ARR                    | 3.00| ADVISORY        |         |

Reduced credit program only

| 22617  | PD LEC 777                         | ARR| ARR Hirth, Maffioli | Reduced credit program only |         |

This course section is reserved for students in the Executive Masters program.

| 677    | Health Care Organiza               | 3.00| ADVISORY        |         |
| 35572  | P LEC 001 MW 1130-1PM 4332 SPH2    | 3.00| ADVISORY        |         |

U of M Schedule of Classes Page 406 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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# Nutritional Sciences

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W20- This course Meets-Together with KINESLGY 513.002.

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This course is meeting in G840 SPH I.

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U of M Schedule of Classes Page 409 of 481 WN 2020 2270 03-05-2020 12:03 22412849
School Of Public Health

Public Health (PUBHLTH)

Public Health (PUBHLTH)

200 Health & Society  4.00
27387 A LEC 001 W 4-5PM ARR Kennedy

The winter term offering is a blended learning course. For more information about the course and registration, see here: https://tinyurl.com/PH200

For registration questions, contact Jillian McConville: jmcconv@umich.edu

27388 P RW DIS 002 TH 830-10AM 2750 SPH1 Lapehn
27475 P RW DIS 003 TH 10-1130AM 2750 SPH1 Lapehn
27474 P RW DIS 004 TH 1130-1PM 2750 SPH1 Lapehn
27473 P RW DIS 005 TH 1-230PM 4318 SPH2 Paschall
27472 P RW DIS 006 TH 3-430PM 4318 SPH2 Carter
27471 P RW DIS 007 TH 430-6PM 2610 SPH1A Carter
28109 P RW DIS 008 F 10-1130AM 2610 SPH1A Carter
28110 P RW DIS 009 F 1130-1PM 4332 SPH2 Paschall
28111 P RW DIS 010 F 1-230PM 4332 SPH2 Paschall

308 Black American Hlth  3.00 ADVISORY

For registration questions, contact Jillian McConville, jmcconv@umich.edu.

Public health undergraduates are given priority access to enroll in this course, enrollment is restricted to these students until 12/06/19.

309 Hunger in America  3.00

This course will be held in 978 North Ingalls Building.

For registration questions, contact Jillian McConville, jmcconv@umich.edu.

310 Nutrition Life Cycle  3.00 ADVISORY

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

24244 A RW LEC 001 MW 9-10AM 1690 SPH1A Anderson
24245 P RW DIS 002 TH 8-9AM 2610 SPH1A Gersten

This section is closed.

24246 P RW DIS 003 TH 9-10AM 2610 SPH1A Gersten
24663 P RW DIS 004 F 9-10AM 2610 SPH1A Gersten
30780 P RW DIS 005 TH 10-11AM 1152 SPH2 Gersten

313 LGBTQ+ Health Promot  3.00 ADVISORY

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

Public health undergraduates are given priority access to enroll in this course, enrollment is restricted to these students until 12/06/19.

318 FoodLiteracy for All  2.00

For registration questions, contact Jillian McConville, jmcconv@umich.edu.

This course will meet in Angell Hall Auditorium B.

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

382 Pop Health Determ  3.00 ENFORCED

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

Students planning to apply to the public health major should not enroll in this course.

383 Data Driven PubHlth  4.00 ENFORCED

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

Public health undergraduates are given priority access to enroll in this course, enrollment is restricted to these students until 12/06/19.

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

Students planning to apply to the public health major should not enroll in this course.

402 Change Hlth Behavior  3.00 ENFORCED

For registration questions, contact Jillian McConville at jmcconv@umich.edu.

U of M Schedule of Classes Page 410 of 481

WN 2020 2270 03-05-2020 12:03 22412849
Public health undergraduates are given priority access to enroll in this course, enrollment is restricted to these students until 12/06/19.

For registration questions, contact Jillian McConville at jmconv@umich.edu.

Students who have completed the prerequisite courses should contact Jillian McConville: jmconv@umich.edu for an override.

At the conclusion of the semester students will engage in a required unique windshield tour of Detroit and a site visit to CHASS, the agency that is partnering with our course. The site visit is scheduled for April 3, 2020. There will be two trips to Detroit on April 3. Section 002 is scheduled from 9:00 AM - 1:00 PM. This required trip to Detroit on April 3 is the only required Friday session. All other course sessions will take place from 10:00 AM - 11:30 AM Monday and Wednesday.

At the conclusion of the semester students will engage in a required unique windshield tour of Detroit and a site visit to CHASS, the agency that is partnering with our course. The site visit is scheduled for April 3, 2020. There will be two trips to Detroit on April 3. Section 003 is scheduled from 1:00 PM - 5:00 PM. This required trip to Detroit on April 3 is the only required Friday session. All other course sessions will take place from 10:00 AM - 11:30 AM Monday and Wednesday.

Public Health in Action: National --- An intensive course to prepare students for a culminating week-long practice-based experience designed to address existing and emerging public health priorities as defined by the respective communities and their academic partners. Students will be engaged directly with communities in Mississippi and exposed to the contextual, cultural, political and economic factors impacting rural health. This field experience will occur May 10-16, 2020. Students will work directly with census data to build organizational capacity. This course is open to SPH undergraduates and graduates.

Public Health in Action: Int --- An intensive course to prepare students for a culminating week-long practice-based experience designed to address existing and emerging public health priorities as defined by the respective communities and their academic partners. Students will be engaged directly with communities in Mississippi and exposed to the contextual, cultural, political and economic factors impacting rural health. This field experience will occur May 10-16, 2020. Students will work directly with census data to build organizational capacity. This course is open to SPH undergraduates and graduates.
This course is open to second year SPH graduate students only. The Grenada field experience portion of this course will occur February 29-March 7, 2020 which will overlap with the spring break period.

741 Interdisc Prob Solv 3.00 ADVISORY
10197 PD LAB 001 W 315-415PM ARR Crane, Wu, Carr

Connected Vehicles Stdzn Diff
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv 3.00 ADVISORY
10204 PD LAB 002 W 315-415PM ARR Scarnecchia, Munro-Kramer, Carr

741 Interdisc Prob Solv 3.00 ADVISORY
P LAB 002  W 430-630PM 1025 JEFFRIES

Campus Sex. Misconduct Prev.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with high social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv 3.00 ADVISORY
10211 PD LAB 003 T 315-415PM 0220 JEFFRIES Mcquade, Carr, Schaub

741 Interdisc Prob Solv 3.00 ADVISORY
P LAB 003  T 430-630PM 0220 JEFFRIES

Info Privacy, Survil. Exposure
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today’s information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv 3.00 ADVISORY
10218 PD LAB 004 W 315-415PM ARR Ratner, Hess, Carr

741 Interdisc Prob Solv 3.00 ADVISORY
P LAB 004  W 430-630PM 1070 JEFFRIES

Hum Rights Mineral Supply Chain
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The extraction of minerals used to manufacture automobile components, including electric vehicle batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking
Challenges Deliver MI Soc Svcs
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The federal government funds many crucial social services for the poor. However, individual states -- which are rarely the focus of policy debates about social services -- are usually responsible for overseeing the provision of those services. This course will focus on emerging challenges to the delivery of social services in Michigan, including Medicaid, food stamps, and TANF. Working closely with officials from the Michigan Department of Health and Human Services, students will devise potential solutions to problems with the administration of state benefits for vulnerable populations.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

741 Interdisc Prob Solv
31865 PD LAB 005 W 315-415PM 1225 JEFFRIES Bagley, Shaefer, Carr
741 Interdisc Prob Solv
P LAB 005 W 430-630PM 1225 JEFFRIES

796 PH Special Topics
28311 PI SEM 001 ARR ARR Sankaran
Adv Problem Solving Initiative
Public Policy

School Of Public Policy

Public Policy (PUBPOL)

210 Health & Society

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250 Energy & Climate Change

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Greenhouse gas emissions associated with energy use are the leading cause of global climate change, and they are growing. The challenge of sharply reducing emissions while continuing to provide energy to a growing population is an enormous global challenge, one that policymakers have not yet solved.

This course will provide an introduction to the global energy system and its role in climate change, with a focus on the United States. It will begin with a review major energy technologies, the markets in which they operate, and how both have changed over time. It will then turn to the fundamentals of climate change, with a basic overview of the science, the economic principles that can guide policymaking to reduce emissions, and key social dynamics that shape policies and markets. We will then turn to the real-world application of public policies at the international and national level, developing an understanding of how these policies are designed along with their effectiveness.

The course will conclude with a series of case studies on potential approaches to addressing the interconnected spheres of energy and climate. Case studies will focus on the sometimes difficult trade-offs that arise in trying to prevent the worst impacts of climate change while providing the energy that underpins the global economy. We will examine the political, economic, technological, and psychological aspects of pursuing alternative approaches to achieve these interconnected goals.

300 Persuasive Policy Writing

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This course, structured as a seminar and writing workshop, intensively develops students' persuasive writing and critical reading skills through active practice and feedback. Weekly writing assignments and exercises will focus on every stage of the writing process, from brainstorming and research through drafting and revision, in three vital areas of political writing: the short opinion piece, the policy memorandum, and the polemical essay. We will read and analyze a wide variety of examples from traditional print and online media, from journalistic, government, and academic sources. We will also explore ethical considerations of policy writing, considering the ways in which our rhetorical choices, tone, word choice, even syntax construct our subjects and frame contentious issues for target audiences.

313 Environ Mgmt & Policy

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This 1.5 credit module will introduce students to the roles that governmental agencies play in environmental protection at the federal and state levels in the United States. It will review the historical evolution of such entities as the Environmental Protection Agency and Department of Interior as well as their state-level counterparts and explore how they address such issues as working across jurisdictional boundaries and environmental media of air, water, and land. We will turn to study such issues as political control of agency staff and operations as well as response to legislative mandates to measure and advance performance. The module will allow students to select a case study for review in a short paper that will be presented at the end of the term.

413 Prof and Lead Dev

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Pathways to Prof. Success

***Course meets in person on January 31 and February 7 only.***

*Non-Ford students can enroll Ford elective courses beginning December 5.*

The goal of this course is to enhance the students' ability to bring about the individual and organizational changes they wish to see. This course begins by addressing (1) what effective managers really do and (2) why some high-potential managers succeed while others fail. As effective managers know, the ability to develop and manage relationships depends first and foremost on knowledge of the other person. This course will explore how both have changed over time. It will then turn to the fundamentals of climate change, with a basic overview of the science, the economic principles that can guide policymaking to reduce emissions, and key social dynamics that shape policies and markets. We will then turn to the real-world application of public policies at the international and national level, developing an understanding of how these policies are designed along with their effectiveness.

This is a course 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 transformative moments of learning, dialogue, leadership and communal capacity building with due regard of difference and the respect of mutuality.

423 Pol Campaign Strategy 3.00

This course will introduce you to the art and science of political campaigning. Topics to be covered include a heavy emphasis on political communications, including speeches and debates, crafting and framing a message, earned media, paid media, digital and social media, voter contact, and field.

PubPol 423 will also examine campaign planning and management, polling and research, identifying, targeting and turning out voters, coalitions and interest groups, budgeting and fundraising, the political environment and Get Out The Vote efforts.

428 Contemporary China 3.00 ADVISORY

Taught by John Hieftje, former Mayor of Ann Arbor.

Cities are leading the fight against climate change. Around the world they are experiencing the devastating effects as hurricanes intensify, sea levels rise, and real estate prices are overwhelmed, along with city budgets. And yet, politicians, plentiful and exciting jobs and exciting communities. But for every successful city, there is a downside of gentrification spreads and all but the wealthy are forced to move further out as housing prices rise. The need for better transportation into and within cities has never been greater. Our federal government offers no help. In response, a new generation of activists are pushing elected leaders to respond. This class will hear directly from activists, state and local elected leaders and top professionals in their field. Finally, students will develop and host the first debate of the 2020 campaign for Ann Arbor City Council.

447 Excel for PubPol 1.50

This course covers basics of STATA’s command, object, memory, and interface fundamentals, data import and management, creation of basic statistical summaries, linear regression and regression diagnostics, analysis for binary and categorical outcomes, and basics of time series and panel data analysis. The course is graded credit/no credit (pass/fail), with weekly review “tasks” in STATA. Students in the class are not expected to have prior knowledge or experience in STATA, but a baseline knowledge of statistical concepts is highly recommended.

474 Values & Ethics 3.00

Science and technology intersect with many areas of public policy. Think of concerns about government surveillance and data privacy, the debates over climate change mitigation policies, the economic and social challenges posed by automation, and religious and ethical concerns about the implications of human gene editing. This course examines competing approaches to bringing science and technology to bear on the public good. It will familiarize you both with the central role that science and technology play in contemporary policy while acquainting you with a set of competing approaches to bringing science and technology to bear on the public good. This course will introduce you to the art and science of political campaigning. Topics to be covered include a heavy emphasis on political communications, including speeches and debates, crafting and framing a message, earned media, paid media, digital and social media, voter contact, and field.

Lying has been getting a lot of attention lately and for good reason. Democracies demand the truthful exchange of information between rulers and the ruled, and as a healthy media to inform the public on matters related to government and policy. Lying therefore poses a legitimate threat to the political stability of our nation. And yet despite the current ubiquity of terms like “post-truth” and “alternative facts”, lying is not a twenty-first century cultural or political aberration, lying permeates the social fabric, playing a significant role in our daily conversations with others and with ourselves. As research has shown, we lie (frequently) to avoid social embarrassment or hurting the feelings of others, or to manipulate situations for our own gain. Political philosophers like Plato and, most notoriously, Machiavelli, have argued that lying is an essential tactic in the ruler’s toolkit, used to preserve social cohesion or persuade the public to agree with a policy that, in the ruler’s opinion, may be for the social good. Lying can also be necessary to protect the minorities from exploitation or oppression. In this values and ethics course, we will read broadly in literature, philosophy, history, and politics, and we will watch a few films and TV shows as well in order to determine when, if ever, lying is justified, and we will apply these lessons learned to examine important policy topics of our own era. Possible topics include: the creation and cultivation of national myths, passing, propaganda, diplomacy, fake news, advertising, and the extent to which lying compromises government services such as entitlement programs, voting,
and the police.

Philanthropy

Private philanthropic foundations in the U.S. are fundamentally private organizations that operate within the public arena, and have long played central roles in advancing social change and shaping.

475 Topics in Pub Pol

Great Depression/Great Recession

*Non-Ford students can enroll Ford elective courses beginning December 5.*

This course examines environmental and energy policies. We discuss the sources of environmental problems and what regulations are available to remedy these problems. We also cover energy markets, including fossil fuel extraction and electricity. Examples of policies analyzed include pollution taxes, renewable energy subsidies, efficiency standards, cap-and-trade programs, and electricity deregulation. Throughout the course, we discuss concepts such as externalizations, valuation of the environment, and cost-benefit analysis. The course presumes some prior knowledge of microeconomics.

Politics of 2020 Census

*Non-Ford students can enroll Ford elective courses beginning December 5.*

Federal election spending from all sources has doubled over the last twenty years and the 2018 election continued the trend. Campaign spending in the midterms exceeded $5 billion for the first time, much of it coming from Super PACs and “dark money” organizations unfettered by federal regulation. Spending in many state elections has followed this trend. But is that a bad thing? We will begin the course by reviewing the campaign finance system at the federal level. We then examine critically the basic claims used to justify campaign finance regulations.

What is the social scientific evidence that spending, by candidates or independent groups, influences election outcomes? What is the evidence that contributions influence elected officials post-election? What is the case against regulation? Do restrictions on campaign contributions and spending violate the First Amendment protection of free speech? In the second half of the course, we will consider the constitutional and practical merits of various campaign finance proposals at the local, state, and federal level. Students will work in teams to evaluate campaign finance policy in a particular state or locality and write policy briefs to public officials on how to improve their campaign finance system, then defend their recommendations in a public forum.

*Non-Ford students can enroll Ford elective courses beginning December 5.*

Course meets in 1230 Weill Hall on March 10, 12, 17, 19, 24.

Census Lab meets in 3117 Weill Hall on March 12 and March 19 only.

The United States has had the longest continuing history of census taking in the world. It is in our Constitution with the express purpose of redistributing power across the states every decade. It is also used to geographically distribute funds. The census is inherently political because of the redistribution of power and not surprisingly there have been controversies over time including who and where people should be counted, differential undercount of the population, confidentiality of responses, and what census methodology is appropriate for the Census Bureau to employ.

Campaign Finance Reform

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Federal election spending from all sources has doubled over the last twenty years and the 2018 election continued the trend. Campaign spending in the midterms exceeded $5 billion for the first time, much of it coming from Super PACs and “dark money” organizations unfettered by federal regulation. Spending in many state elections has followed this trend. But is that a bad thing? We will begin the course by reviewing the campaign finance system at the federal level. We then examine critically the basic claims used to justify campaign finance regulations.

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490 Independent Study
I IND + ARR ARR 1.00-4.00

495 Policy Seminar
18707 PDRW SEM 001 TTH 1-220PM 1210 WEILL Raimi

Irrational Actors
PUBPOL 495 (Policy Seminar) is for students currently enrolled in the Public Policy Undergraduate Program only, no exceptions. Enrollment is by permission only.

Classic economics is based on the idea of rational actors, people making decisions that maximize their own utility based on their preferences. However, most psychological models of behavior don't assume that people are particularly rational. Some even claim that the vast majority of our decisions are not based on conscious preferences and deliberate choices, but are instead influenced by factors that are invisible to us. For example, why is it that people who are desperately trying to save money end up splurging on unnecessary purchases? How is it that people who don't think of themselves as racist and even go out of their way to reject racist beliefs can still act in biased ways against racial minorities? Why is it so often the case that the arguments we remember best are the ones that happen to fit with our existing beliefs?

Many psychological and behavioral economic models have been created to explain the myriad ways that people act irrationally. In this policy seminar, we will examine some of the ways in which people are predictably irrational and the implications of this irrationality for policy. We will review research from behavioral economics and psychology to explore how factors such as heuristics, implicit attitudes, social norms, self-serving biases, and emotions can shape our decisions often in ways we're not even aware of. This course will place these recent trends in context by studying the 20th century economic history of the U.S., Europe, and Japan. We will examine (1) the origins of modern economic growth in the 19th century and the forces that increased growth in the 20th century; (2) the tremendous economic disruption of the Great Depression; (3) the growth success of the 1950s and 1960s; and (4) the cyclical and structural economic problems faced by the U.S., Europe, and Japan since 1973. The focus of this course will be on the economics of these events and the responses of economic policymakers. But we will also look to history and political science for alternative perspectives.

19409 PDRW SEM 002 TTH 1-220PM 1220 WEILL Henry

Apology, Peace, Reparations
PUBPOL 495 (Policy Seminar) is for students currently enrolled in the Public Policy Undergraduate Program only, no exceptions. Enrollment is by permission only.

How do nations founded through political conflict and extreme social traumas come to systemic terms with the evolution of discourses on human rights after 1948? What has been the role of transitional justice mechanisms such as truth commissions and public apologies in shaping reparative frameworks as part of the post conflict nation’s quest for greater social cohesion and legal reconciliation? What are the psycho-social, socio-cultural, political and economic challenges faced by democratic nations who have previously experienced colonization and extended periods of administrative violence?

This comparative public policy seminar will explore the currency of transitional justice mechanisms, reparative processes and public apologies that have come about through long, complex and ongoing civic struggles for indigenous rights in South Africa, New Zealand, Australia, Canada and the USA. The questions of equality, justice and rights so central to democratic nationhood are not so easily settled once a nation has been officially inaugurated. Such questions are a constant part of what is at stake in the political, social, economic, and moral context of public policy during the post conflict phases of democratic consolidation. This course will address how our ability as future leaders, policy analysts and policymakers may be improved by developing a deeper understanding of the complex nature and discourse on human rights and the politics of nationhood. It will informed by an ongoing reflection of our proximity as leaders to violence and our responsibility as policy makers to the ongoing public engagement with the ’unfinished business’ of history making.

28464 PDRW SEM 003 MW 1-220PM 1220 WEILL Hausman

Energy & Climate
PUBPOL 495 (Policy Seminar) is for students currently enrolled in the Public Policy Undergraduate Program only, no exceptions. Enrollment is by permission only.

The climate is changing at an unprecedented rate, with implications for human well-being around the world. This course will explore how different energy sectors (including coal, oil, and natural gas) contribute to climate change. We will discuss and analyze the incentives faced and decision-making by consumers and firms. We'll delve into theories of when and how government can or should regulate these sectors.

510 Politics of Pub Pol
25275 PDRW REC 001 TTH 10-1120AM 1110 WEILL Hanson, Pudimat

Comparative
This is a core course restricted to Ford School students only. Registration is by permission only.

This section of 510 focuses on political strategy and policy processes in comparative perspective. Students will learn how national and regional contexts shape governing institutions, political cultures, stakeholders and strategies, and will develop tools to inform and influence policymaking given these differences. Overall, the course trains students: a) to analyze critically and in-depth the political dimensions of pressing policy issues; b) to engage in issue advocacy from grassroots mobilization to lobbying across national contexts; c) to develop a nuanced understanding of different including opposing interests in the policy process; d) to understand the policymaking environments of countries in Europe, Asia, and Africa, in comparative perspective with the United States; e) to work in teams; and f) to improve written and communication skills.

27425 PDRW REC 002 TTH 1-220PM 2215 WEILL Kabo

U.S.
This is a core course restricted to Ford School students only. Registration is by permission only.

This section of 510 aims to help students better understand policy analysis and the political environment within a context of American domestic politics at the national level. By the end of the course, students will understand the political environment in which policy specialists operate: the participants who shape policy within particular
This course provides an overview of international financial economics, developing analytic tools and concepts that can be used to analyze world economic policy debates. It covers the international implications of macroeconomic policies, international monetary arrangements and institutions, and stabilization programs for developing countries. The course will be structured around the tools (models) of open economy macroeconomics, using primarily graphs, and occasionally equations. However, motivation for these tools and examples of their use will always be taken from current and recent real-world macroeconomics events and conditions. This course presumes prior knowledge of intermediate microeconomics and graduate standing. Course assignments will include problem sets that involve short essays, data collection and analysis, and problem solving, and a group project that involves an assessment of the macroeconomic performance and problems in a particular country.

**Economics Analysis 568**

- **CAT#:** 32161
- **Title:** A RW LEC 001
- **Days:** MW
- **Time:** 9-1150AM
- **Location:** 1110 WEILL
- **CR:** 3.00
- **Advisor:** Enforced
- **Instructor:** Stange, Fletcher

A continuation of PubPol 555 (Micro A), this course will deepen students’ understanding of key economic concepts and principles and how they are applied to the practice of policy analysis. Students will thus gain applied policy analysis skills through an economic lens, focusing on the efficiency and equity consequences of resource allocation, regulation, and other policy interventions. We will develop and hone an array of tools, including graphical analysis, cost-benefit and cost-effectiveness analysis, sensitivity analysis, and different approaches to valuation. We will apply these tools to specific applications in a handful of public policy domains including the environment, early childhood and education, labor markets, trade, crime, and transportation. Throughout, the course will focus on the skills and approaches that public policy professionals use in practice. In fact, we’ll see several examples of economic analysis being done by or used by our own Ford alumni!

**Gov Reg Ind & Envr 564**

- **CAT#:** 31980
- **Title:** P RW LEC 001
- **Days:** MW
- **Time:** 4-520PM
- **Location:** 1210 WEILL
- **CR:** 3.00
- **Advisor:** Enforced
- **Instructor:** Hausman

This course examines environmental and energy policies. We discuss the sources of environmental problems and what regulations are available to remedy these problems. We also cover energy markets, including fossil fuel extraction and electricity. Examples of policies analyzed include pollution taxes, renewable energy subsidies, efficiency standards, cap-and-trade programs, and electricity deregulation. Throughout the course, we discuss concepts such as externalizations, valuation of the environment, and cost-benefit analysis. The course presumes some prior knowledge of microeconomics.

**STATA Practicum 568**

- **CAT#:** 32512
- **Title:** P RW LAB 001
- **Days:** F
- **Time:** 9-1150AM
- **Location:** 3117 WEILL
- **CR:** 3.00
- **Advisor:** Enforced
- **Instructor:** Worthington

This course provides students with a practical hands-on instruction in the analysis of survey data using the statistical package Stata. Students will learn how to investigate a variety of public policy issues using data from the U.S. as well as several developing countries.

**Appl Econometr 571**

- **CAT#:** 28465
- **Title:** P RW LEC 001
- **Days:** TTH
- **Time:** 230-350PM
- **Location:** 1230 WEILL
- **CR:** 3.00
- **Advisor:** Enforced
- **Instructor:** Hanson

Prerequisite: B- or better in PubPol 639 or equivalent.

Students will understand how to design, execute, and interpret the results from advanced estimation techniques beyond the standard OLS model. Topics will include models for binary and categorical dependent variables, instrumental variables, selection models, regression discontinuity models, survival/duration models, time-series analysis, panel and time-series-cross-sectional models.

**Tax Policy & Business 575**

- **CAT#:** 36563
- **Title:** P RW LEC 001
- **Days:** MW
- **Time:** 830-10AM
- **Location:** 1210 BUS
- **CR:** 1.50
- **Advisor:** Enforced
- **Instructor:** Slemrod

**Values & Ethics 580**

- **CAT#:** 11496
- **Title:** P RW LEC 001
- **Days:** MW
- **Time:** 10-120PM
- **Location:** 1210 WEILL
- **CR:** 3.00
- **Advisor:** Enforced
- **Instructor:** Ciocciari, Sims

International focus

This is a core course restricted to Ford School students only.

This course seeks to make students sensitive to and articulate about the ways in which moral and political values come into play in the American policy process, particularly as they affect non-elected public officials who work in a world shaped by politics. Topics covered include the tensions between ethics and politics, an introduction to various moral theories that figure in contemporary policy debates, a consideration of the principal values that animate American politics, and issues and dilemmas in professional ethics. The course addresses issues that affect international as well as U.S. policy and politics.
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**586 Performance Mgmt**
- 28480 P RW SEM 001 TTH 230-350PM 1220 WEILL Silva
- 28481 P RW SEM 002 TTH 530-650PM 1210 WEILL Silva

**587 Public Management**
- 25278 P RW SEM 001 T 4-650PM 1220 WEILL Meadows

Leadership Within the 3rd Sec
Taught by Phyllis Meadows, Senior Fellow, Health, The Kresge Foundation.

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course will focus on understanding opportunities and building skills for leadership and management within and across the non-profit and governmental sectors. The course will expose students to exemplary leaders and organizations focusing on the design and delivery of health and human services. Over the course of seven weeks, students will have the opportunity to explore methods and approaches for leading cross-sector partnerships and for managing issues in governance, relationships, politics, planning, and financing. This course will provide a blend of short lectures, case-studies and practice opportunities in leading and management. This course is especially designed for students who aspire to be on the cutting edge of leadership in the future.

**Strategic Comm for Advocacy**

This course will introduce students to a range of communication strategies to move public policy forward in public policy areas from climate change to public education, health reform to anti-poverty efforts. For new public policy to emerge, policy experts must learn skills to translate their analytical content to the public audiences that ultimately decide the fate of reform. Class members will examine policy reform from the strategic communications perspective including understanding audiences, identifying partners, developing key messages, storytelling, media relations, delivering the messages through effective channels and measuring impact. Students will develop policy advocacy campaigns which demonstrate the interplay between strategic, effective, targeted communications and achieving and sustaining policy change.

**Fundraising Strategies for Non**
Taught by Katherine (Kat) Walsh, director of student engagement and director of diversity, equity, and inclusion initiatives, U-M Office of University Development (OUD).

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Social change cannot occur without an infusion of financial resources particularly as the public service sector does not have the financial capital to invest in solving every pressing social issue. Fundraising promotes a culture of possibility --- it’s the intersection of personal passions and organizational needs. Increasing your knowledge of industry best practices and gaining fundraising skills are critical to your success in social impact work. This course will provide the opportunity to engage theory in practice (praxis) through the study of fundraising for nonprofit organizations in the United States. We will learn about fundraising history, principles, best practices, and shortfalls through guest lectures from industry leaders, readings, self-reflection, group dialogue, and an applied learning project. This year’s applied learning project involves Food Gatherers, a local nonprofit in Ann Arbor.

**Policy & Manage in Nonprofit**
Taught by Neel Hajra, the President & CEO at the Ann Arbor Area Community Foundation.

*Non-Ford students can enroll Ford elective courses beginning December 2.*

The nonprofit sector has emerged as one of the cornerstones of American society, and yet remains very much a work in progress. The “third sector” faces unique and evolving pressures in areas such as social enterprise, philanthropy, mission focus, performance measurement, sector blur, and more. In our class we will examine how some of these broad issues intersect with the day to day operation of nonprofit organizations. By considering sector tensions from a management perspective, ultimately we will each develop our own informed view on the appropriate role and function of the nonprofit sector with society. Future policy makers and nonprofit managers alike will enhance their ability to formulate positions on policy issues that impact the sector.

**Working in Diverse Orgs**
Taught by Raimi

The workforce of the 21st century is increasingly diverse. Productive managers cannot afford to ignore this diversity, and can benefit greatly from it. Yet we are often nervous about discussing and embracing issues of diversity, equity, and inclusion and many otherwise strong leaders are blind to the ways their own biases might affect their teams. In this module, students will learn about potential blind spots such as unconscious bias and its effects on employee hiring and retention, how the desire to avoid negative emotions might get in the way of productive management, and the dangers of groupthink, as well as learning strategies to avoid or address these problems. The readings will draw on empirical research from social psychology and organizational behavior, as well as real-world examples of diversity issues in the workplace.
This course is limited to MPA students only.

**Directed Reading (600)***

This course is limited to MPA students only.

**Peacebuilding (621)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course will examine how the U.S. and other international actors seek to help pacify, stabilize, and rebuild societies embroiled or emerging from war. We will review some major problems faced by conflict-ridden societies and use case studies to examine specific aspects of "peacebuilding" in more detail: forging settlements, peacekeeping, economic reconstruction, and transitional justice.

**Qual Methods (633)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course serves as an introduction to qualitative methods for MPP/MPA students. While we will examine a range of qualitative methodological approaches, the course's core focus will be on the case study method, with special emphasis on observational and interview-based research.

**Integ Policy Exercise (638)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course will be held January 10-11, 2020. The Integrated Policy Exercise provides students with a week long opportunity to work intensively on a policy issue. All students participate as part of a team representing different constituencies with an interest in the problem being studied. Working in groups of 7 to 10, students are assigned a role such as lobbying firm or political operative, or economic group. Groups prepare a political strategy to achieve their clients' objectives and to develop policy positions for their group. The week culminates in a negotiation process among all the groups involved. Topics vary each year.

**Quant Prgm Eval (639)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course introduces students to multiple regression analysis and other tools of causal inference and program evaluation. The course will focus on applying these tools to real data on various policy topics. Applications will be drawn from a range of policy areas including education, welfare, employment, health, environment, and economic development.

**Excel for PubPol (647)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course is an accelerated introduction to a variety of Public Policy research and analysis-related skills in the Microsoft Excel environment. This course is designed to familiarize students with core skills in data access, manipulation, analysis, and presentation using Excel (and Excel-like alternatives). Spreadsheet programs remain an important part of professional life, and this course will prepare students for basic and intermediate use of aspects of the program in that setting.

**Intr to Science & Tech (650)***

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Drawing on an interdisciplinary social science literature, this course introduces theories and methodologies for science and technology policy analysis and familiarizes students with the landscape of science and technology policymaking in the US and abroad. No scientific background is required.

**Eck & Soc Emerg Mrk Ec (674)***

This course developed from an initiative of the International Policy Students Association (IPSA) at the Ford School of Public Policy. It will be in two parts. Section 1: Traditional Class Format (1.5 credits)

This seven-week, 1.5-credit course focuses on the evolution of a given country's economic, political and social institutions and policies, beginning with the historical origins of the country. Students examine why the country embarked on the development strategies in different periods and what the consequences of those strategies were. The
course will progress to the current period and examine the pressing policy issues facing the country today and how
the leaders are dealing with those problems given the internal and external constraints. The course will be studied
will be selected in the early part of the previous fall term by the group of students who applied and were selected
by IPSA and the faculty advisor for the study tour.

During the seven-weeks, students who will be participating in the second part of the course (the country tour) will
choose topics to study and to be further discussed with policy makers in the country. They will also organize
meetings with the relevant individuals in the country.

Part 2: Country Tour (1.5 credits)
This course is limited to approximately 20 students who are selected by IPSA and a faculty advisor during the
previous fall semester. Those students who have completed PUBPOL674-001 and participated in organizing the trip
(including fund raising), will travel to the chosen country during the U-M Spring Break and meet with individuals
from a variety of institutions, based on their interests developed in the seven-week course. Upon their return,
they will be expected to write a report and to produce web-site material and other deliverables for the Ford School
in order to receive credit.

15393 PDRW SEM 002 ARR ARR Waltz
Enrollment by permission only - students selected through IEDP application process.

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in order to receive credit.

31092 PDR SEM 003 ARR ARR Waltz
IEDP Leadership only
IEDP Leadership only

676 Intl Pol of Pov&Dev

31987 P RW SEM 001 TTH 1-220PM 1120 WEILL Waltz
*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course examines alternative approaches to the study of poverty and development. Attention is directed
primarily to problems confronted in the global South, with some comparative perspective on Western industrialized
countries. Policy choices are considered in view of the opportunities offered and constraints imposed by aid
agencies and international organizations. This course provides a graduate-level, policy-oriented introduction to
issues and problems in the area of international development. It exposes students contending approaches to
international development/poverty, with the intent of helping them think critically and inspect the assumptions
that underlie the various studies. A substantial portion of the course will be spent looking at questions
surrounding politics and policies of bilateral and multilateral aid programs.

700 Directed Research
1 IND + 1.00-6.00 ADVISORY

710 Interdisc Prob Solv
10196 PD LAB 001 W 315-415PM 3.00 ADVISORY

10196 PD LAB 001 W 430-630PM 0220 JEFFRIES

Connected Vehicles Sitzns Dlt
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving
Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between
standardization, which enhances compatibility and interoperability, and differentiation. Students will consider
which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and
what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering,
information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system
(https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking
to apply can contact problemsolving@umich.edu.

710 Interdisc Prob Solv
10203 PD LAB 002 W 315-415PM 3.00 ADVISORY

Scarnecchia, Munro-Kramer,
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This class 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 course focuses on rigorous evaluation of policies and interventions related to postsecondary education. Evaluations will be discussed in the context of the current and historical landscape. Specific topics will include financial aid, college quality, persistence and labor market returns. Methods include matching, regression discontinuity, randomized trials and instrumental variables. This course is intended for PhD students early in their dissertation phase, as well as for advanced masters students who plan to work with empirical research in a professional setting.

715 Pub Budget&Fin Plan 3.00 ADVISORY
24281 P RW LEC 001 MW 10-1120AM 1110 WEILL Leiser

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Budgeting and financial planning impacts nearly all aspects of organizational life in the public service arena. Indeed, few politicians and administrators are ever successful in accomplishing their goals without significant knowledge (or even mastery) of the budgeting process. This course focuses on understanding the theoretical foundations and hands-on applications related to budgeting. The course is organized into four major themes: (1) budget process and policy reform; (2) operating and capital budget development; (3) planning and program analysis; and (4) performance management. The course will utilize examples and exercises related to federal, state and local, and nonprofit organizations. In addition, the instructor periodically relies on speakers that are practitioners and consultants that work in the budgeting field.

716 Intro Chinese Policy 1.50 ADVISORY
20720 P RW SEM 001 W 4-650PM 1230 WEILL Lin

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This first portion of the course, held in Ann Arbor, will introduce students to China and its policy and economic environments. Drawing on the expertise of Ford School faculty and outside guests, each class will focus on a different policy area. Themes will include (but are not limited to):

1) Government and civil society (including the Beijing bureaucracy, local politics, and the role of advocacy groups);
2) Economic development (including business, the emergence of a middle class, and rural development projects);
3) Environmental issues (including the Three Gorges Dam, pollution problems, and "green" energy projects); and
4) US/China relations (including Chinese perceptions of the west, international security issues such as Taiwan, and trade).

20721 PDRW SEM 002 ARR ARR Lin

China Trip
Enrollment by permission only - students selected through China Trip application process. Open to Ford School students only.

718 Facilitating Dialog 3.00
33624 P RW SEM 001 TH 4-650PM 1230 WEILL Henry

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This is a course 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 ethnicity/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 mutuality.

725 MPA Capstone 5.00
31988 PDR SEM 001 MW 1130-1250PM 1230 WEILL Lantz
36614 P SEM 002 ARR ARR

727 Hist of Reparations 3.00
32507 P RW LEC 001 M 4-650PM 1230 WEILL Lewis

History, Reparations and Policy
*Non-Ford students can enroll Ford elective courses beginning December 2.*

Through the use of case studies, we will explore the history and social conditions that have spurred the call for reparations in the United States. The course will begin with an overview of the contemporary calls for reparations, which have generally been led by African American legislators, policy makers, activists and journalists. But as you will learn in this course, other communities and groups have aligned themselves with a call for reparations at various times, often driven by specific historical events. Moreover, as you will read and we will discuss, the call for reparations is not limited to the United States. As a matter of social policy, some of the earliest claims followed the emancipation of nearly 4 million formerly enslaved African Americans. But the idea of reparations also included Native Americans who saw their lands claimed as they were sent first to the Indian territories in Oklahoma and ultimately reservations across the country. Here we must confront the question of sovereignty and the use and some may say abuse of treaties. Both the case studies of Native Alaskans and Japanese Americans add additional texture to the history of the battle for reparations in the United States.

To widen the lens a bit so that we can better understand the American story, we will take brief looks at Germany and South Africa as well. Ultimately, we will return to today's public debates and ask and discuss whether there is a public policy case for reparations for African Americans. If so, which people of African descent? What should be the contours of the reparation?

732 Pub Pol Pse 3.00 ADVISORY
23959 P RW SEM 001 TH 1-4PM 2328 SEB Rodriguez
Prereq: graduate standing

735 Prof and Lead Dev 1.00 ADVISORY
18149 P RW SEM 001 F 830-220PM 1210 WEILL Scheerer
Course meets on March 13 and March 20

"Non-Ford students can enroll Ford elective courses beginning December 2."

The goal of this course is to enhance the students' ability to bring about the individual and organizational changes they want to see. This course begins by addressing (1) what effective managers really do and (2) why some high-potential managers succeed while others fail. As effective managers know, the ability to develop and manage relationships with others is critical to a manager’s success. This course is based on three foundations: The first focuses on developing self-awareness. After all, managing relationships depends first and foremost on knowledge of individual personal strengths and weaknesses and the impact of these strengths and weaknesses on others. The second foundation focuses on developing an understanding of others. The third foundation focuses on managing specific types of relationships on the job—those with subordinates, peers, and bosses.

470 Leadership Assessment 0.50 ADVISORY

The Ford School defines leadership as the behavioral process of having a positive influence on others, organizations and communications. This short course will meet 4 times, during which students will have the opportunity to take 1 or 2 different types of leadership assessments and then use them for self reflection and personal planning. The purpose of this course is to provide students the opportunity to take a moment to assess their current leadership traits and strengths, and create a tailored plan for building leadership goals and skills into the future.

Course will meet in person on the following dates:

- Wednesday, January 15
- Wednesday, January 22
- Wednesday, January 29
- Wednesday, February 5

471 Pr Fin & Glo Mkt 3.00 ADVISORY

*Non-Ford students can enroll Ford elective courses beginning December 2."

Finance is fundamental to many public policy questions. When the financial sector works well, it transfers resources from savers to borrowers, allowing individuals to save and businesses to invest. But when the financial sector works badly, resources are misallocated and financial crises threaten the entire economy. This course provides an overview of financial markets and institutions, and then considers the causes, consequences, and possibly policy responses to financial crises. 

474 Econ of Publ Sect 3.00 ADVISORY

*Non-Ford students can enroll Ford elective courses beginning December 2."

This course examines U.S. social welfare programs and policies targeting the nonelderly poor, emphasizing what we know from social science research about the strengths and weaknesses of the intended and unintended effects of these policies. The course begins by addressing basic questions about the measurement and incidence of poverty in the U.S., and then surveys the scope of current social welfare programs. What does it mean to be poor in the U.S. today? How do the extent of poverty and income inequality and the scope of social welfare programs in the U.S. compare to those in other industrialized countries? A primary focus will be to explore changes to public provision for poor families that were adopted during the 1990s, including expansions of refundable tax credits, changes to the Supplemental Nutrition Assistance Program (formerly the Food Stamp Program) and public health insurance for children, and the 1996 welfare reform. The final segment of the course will examine how policies not primarily targeting poverty can nevertheless greatly impact disadvantaged families. This conversation will be embedded in work being conducted in Detroit by Poverty Solutions faculty experts. Course assignments include a policy analysis research paper in two parts (with a problem analysis and solution analysis), and a final examination. 

750 Special Topics 1.50.00 ADVISORY

Intro to FinTech

Topic: Introduction to Financial Technology and the Future of Financial Services

*Non-Ford students can enroll Ford elective courses beginning December 2."

Throughout history, financial services has played a vital role in the global economy, and similarly, technology has been an integral part of financial services. Although the combination of financial services and technology isn’t new, the advent of mobile technologies along with a post-financial crisis world have led to a financial technology, or fintech, revolution. New products and services have emerged, causing financial services to look very different
than it did 10, or even four, years ago. But fintech is still a relatively new industry, and many questions remain about the benefits and the risks of fintech, how it will impact incumbent institutions and systems, what it will mean for consumers, and how governments should view these developments. How are recent technological advances different than past innovations? How is technology changing financial services today and how will it change the industry in the future? What impact does this change have on stakeholders, including consumers? What are the benefits and risks of this change? This course will examine these questions and others.

Total global fintech investment increased from $50.8 billion in 2017 to a full $111.8 billion in 2018, according to KPMG? s The Pulse of Fintech, and there are no signs that growth in this sector will slow down. What are the latest trends in fintech and how do innovators, entrepreneurs, and other stakeholders see the space developing? Beyond the general trends, how do fintech entrepreneurs, incumbents, and investors identify and assess opportunities in fintech? And what does the lifecycle of a fintech company look like? This course will provide a strong foundation for those with a working level of knowledge in fintech and who are interested in starting or investing in fintech companies.

Non-Ford students can enroll Ford elective courses beginning December 2.

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Since the 2008 financial crisis, developed countries have suffered high unemployment and slow growth. What are options for policymakers in this environment? This course will analyze central issues in macroeconomic policymaking through the lens of history. Students will apply analytical tools to understand the consequences of monetary, fiscal and financial market policy in the Great Depression, in Japan after 1990, and in the current Great Recession.

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What are smart cities? What makes them smart? Are they equitable and accessible? The aim of this hands-on applied policy course is to introduce students to smart cities and the rapidly evolving mobility ecosystem. The transportation/mobility system is a major component of a smart city. Hence, this course will focus on the rise of the new mobility ecosystem which includes micro-transit, autonomous vehicles, ride-hailing, bike-sharing, car-sharing, electric scooters, smart parking, etc.

The course will take a people centered approach to the technology, management and policy analysis for smart cities and the mobility ecosystem. We will take a critical approach that is concerned with ethics, values, human development and equity. The course features guest lectures from experts in smart cities and the new mobility space. Additionally, the students will participate in applied hands-on real world policy projects. This course welcomes students from across the university. To achieve the learning objectives of this course students will participate in class discussions, complete short weekly reflections on the readings, and conduct a final project.

Non-Ford students can enroll Ford elective courses beginning December 2.

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The Diversity Initiatives in Higher Education course will provide graduate students with insight into policy issues related to diversity and inclusion efforts at public institutions in the United States. This course will expose students to a range of topical issues related to strategic and policy approaches to diversity in higher education and provide consideration for leadership who orchestrate organizational change. The course will provide students with a framework for examining organizational change initiatives such as the role of vision and mission in organizations, values conflict, and stakeholder management.

Students will engage with these issues through course readings, class discussions, and reflection on personal leadership behaviors. In addition, students will interact with personnel leading organizational change at the University of Michigan by analyzing current campus policies and strategic and policy responses to challenges they
The course is designed to explore through readings, exercises and discussion how governments, corporations and civil society influence each other to shape foreign policy outcomes. We will take up six big international issues, role-play the interactions, discuss the issue and players in detail, and identify potential solutions to the problem and how they might be reached. The goal is to understand how to work major foreign policy issues, how to craft strategies, identify allies and obstacles, how to advocate effectively to gain support with a view to resolving issues in the real world. In addition to the instructors, we will invite knowledgeable outsiders to provide briefings and answer questions during class.

This course will cover the history of census procedures, questions, apportionment, and controversies, with a particular focus on the 2020 Census. The course will consist of 5 lectures and 2 labs.

The grade in the class will be based on assignments completed during the labs and a short 2-page policy brief based on content covered in the lectures/labs. The lab assignments will use data from the Census Bureau to explore issues presented in the lectures. No statistical expertise or programming ability is required for the course.

**Exercising Influence**

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Course meets on March 10, 12, 17, 19, 24.

Census Lab meets: March 12 and March 19 only.

The United States has had the longest continuing history of census taking in the world. It is in our Constitution with the express purpose of redistributing power across the states every decade. It is also used to geographically distribute funds. The census is inherently political because of the redistribution of power and not surprisingly there have been controversies over time including who and where people should be counted, differential undercount of the population, confidentiality of responses, and what census methodology is appropriate for the Census Bureau to employ.

This course will cover the history of census procedures, questions, apportionment, and controversies, with a particular focus on the 2020 Census. The course will consist of 5 lectures and 2 labs.

The grade in the class will be based on assignments completed during the labs and a short 2-page policy brief based on content covered in the lectures/labs. The lab assignments will use data from the Census Bureau to explore issues presented in the lectures. No statistical expertise or programming ability is required for the course.

**Politics of 2020 Census**

Topics: Moving Power and Money: The Politics of the 2020 Census

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Course meets on March 10, 12, 17, 19, 24.

Census Lab meets: March 12 and March 19 only.

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**Campaign Finance Reform**

Topic: Campaign Finance Reform

*Non-Ford students can enroll Ford elective courses beginning December 2.*

Federal election spending from all sources has doubled over the last twenty years and the 2018 election continued the trend. Campaign spending in the midterms exceeded $5 billion for the first time, much of it coming from Super PACs and "dark money" organizations unfettered by federal regulation. Spending in many state elections has followed this trend. But is that a bad thing? We will begin the course by reviewing the campaign finance system at the federal level. We will examine critically the basic claims used to justify campaign finance regulations. What is the social scientific evidence that spending, by candidates or independent groups, influences election outcomes? What is the evidence that contributions influence elected officials post-election? What is the case against regulation? Do restrictions on campaign contributions and spending violate the First Amendment protection of free speech? In the second half of the course, we will consider the constitutional and practical merits of various campaign finance proposals at the local, state, and federal level. Students will work in teams to evaluate campaign finance policy in a particular state or locality and write policy briefs to public officials on how to improve their campaign finance system, then defend their recommendations in a public forum.

**504 Res Sem Sci Tech PP**

17493 P RW SEM 001 W 130-3PM 220 CHRYS Duderstadt, Graff

**Section -001 is a one credit course requiring attendance at the seminar from 1:30 to 3:00 in room 220 Chrysler.**

**Section -002 is a three credit course requiring both attendance at the seminar and attendance at a discussion session from 12:30 to 1:30 (151 Chrysler), as well as a term project.**

The aim of this course is to introduce students to topical issues in science and technology policy. The course will meet weekly for a formal seminar. Those currently in the science policymaking arena as well as experts in applied science policy research will be invited to campus to participate as seminar speakers. By interacting with those active in science policy circles, it is hoped that students will gain a real appreciation for the processes and underpinnings of current national science policy.

The course will be offered as a 1 credit seminar course and as a 3 credit seminar/discussion course. Students enrolled in the 3 credit course will also take part in discussion sessions to follow-up the seminar presentations, as arranged by the instructor. In addition, these students will be expected to write a term paper on one of the issues covered in the seminars and give a brief presentation late in the term.

Students enrolled in the Science, Technology, and Public Policy (STPP) Graduate Certificate Program must take this course for 3 credits.

19025 P RW SEM 002 W 1230-130PM 151 CHRYS Duderstadt, Graff

P RW SEM 002 W 130-3PM ARR

**Section -001 is a one credit course requiring attendance at the seminar from 1:30 to 3:00.**
Section -002 is a three credit course requiring both attendance at the seminar and attendance at a discussion session from 12:30 to 1:30, as well as a term project.

The aim of this course is to introduce students to topical issues in science and technology policy. The course will meet weekly for a formal seminar. Those currently in the science policymaking arena as well as experts in applied science policy research will be invited to campus to participate as seminar speakers. By interacting with those active in science policy circles, it is hoped that students will gain a real appreciation for the processes and underpinnings of current national science policy.

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Students enrolled in the Science, Technology, and Public Policy (STPP) Graduate Certificate Program must take this course for 3 credits.

Taught by John Hieftje, former Mayor of Ann Arbor.

Cities are leading the fight against climate change. Around the world they are experiencing the devastating effects as hurricanes intensify, sea levels rise, "heat islands" multiply and storm water systems are overwhelmed, along with city budgets. And yet, people are flocking to cities to experience their booming economies, plentiful jobs and exciting cultural communities. But for every successful city, there is a downside as gentrification spreads and all but the wealthy are forced to move further out as housing prices rise. The need for better transportation into and within cities has never been greater. Our federal government offers no help. In response a new generation of activists are pushing elected leaders to respond. This class will hear directly from activists, state and local elected leaders and top professionals in their field. Finally, students will develop and host the first debate of the 2020 campaign for Ann Arbor City Council.
Rackham Graduate School

Chemical Biology (CHEMBIO)

**502 Chemical Biology II** 3.00 ADVISORY
17733 PDR SEM 001 TTH 9-11AM 1200 CHEM Wang, Nagorny, Cierpicki, Grembecka

Contact ChemicalBiology@umich.edu for registration inquiries after December 1st. This course is for PhD students only.

Section 002 not offered. PhD students should register for Section 001.

**512 MS Chem Bio II** 5.00 ADVISORY
28848 P R LEC 001 TTH 9-11AM ARR Iliff

This course is intended for Chemical Biology MS students only.

CHEMBIO 512 lectures will meet together with CHEMBIO 502 in 1200 CHEM on T and TH 9-11AM.

Registering for the lecture section will auto-enroll a discussion section (CHEMBIO 512 002) on F 11-12pm (location 1028 DANA).

This course is intended for Chemical Biology MS students only.

Registering for the lecture section will auto-enroll this discussion section (CHEMBIO 512 002) on F 11-12pm (location 1028 DANA).

**599 Research Rotation** 1.00-6.00
17735 P R LAB 001 ARR ARR
Register for section 001 for a full semester rotation.
18643 PDR LAB 002 ARR ARR
Register for section 002 for a January - February half semester rotation.
18644 PDR LAB 003 ARR ARR
Register for section 003 for a March- April half semester rotation.

**602 Critical Analysis II** 1.00-2.00
17734 P R SEM 001 M 3-4PM 4151 USB Palfrey
This course is available to Chemical Biology graduate students only.
22545 PD SEM 002 M 3-4PM 4151 USB Palfrey

**990 Diss-Precand** 1.00-8.00
SD IND + ARR ARR
995 Diss-Cand
SDR IND + ARR ARR

**602 Museum Proseminar 2** 3.00 ADVISORY
22870 PD SEM 001 MW 6-730PM 049 UMMA Taylor

**609 Museum Practicum** 1.00-6.00 ADVISORY
1.00-6.00 ADVISORY

**611 MSP Reading/Research** 1.00-3.00 ADVISORY

**Rackham Graduate School (RACKHAM)**

**525 Humanities** 3.00
25094 P W SEM 001 TH 4-7PM ARR Alcock, Courant

**571 Interdisc Sem** 1.00 ADVISORY
24977 P SEM 001 ARR Cowles

**580 Disability Studies** 1.00-3.00 ADVISORY
21079 PI SEM 001 TH 2-5PM G463 MH Kupetz

**619 Science Tech&Med** 3.00 ADVISORY
21003 P RW REC 001 T 4-7PM G026 TISCH Selcer, Roberts
# Ross School of Business

FRESHMEN MAY NOT ELECT ANY BUSINESS COURSES. 500 LEVEL COURSES OR ABOVE REQUIRE GRADUATE STANDING.

## School of Business Administration

### Accounting (ACC)

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### Accounting Principle

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ACC 471 is reserved for non-Business school students with junior standing or above. Students cannot receive credit for both ACC 300 and ACC 471.

ACC 471 Section 010 meets with Section 001 and is only open to Minor in Business students. Please note that students cannot receive credit for both ACC 300 and ACC 471.

ACC 471 Section 020 meets with Section 002 and is only open to Minor in Business students. Please note that students cannot receive credit for both ACC 300 and ACC 471.
ACC 471 Section 030 meets with Section 003 and is only open to Minor in Business students. Please note that students cannot receive credit for both ACC 300 and ACC 471.

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This course is reserved for students in the Master of Management program.

552 Management Acctg

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564 Corp Fin Reporting

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710 Sem Acctg Issues

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ACC 728.001 is cross-listed with FIN 728.001 and meets with ACC 338.001/FIN 338.001.

ACC 728.002 is cross-listed with FIN 728.002 and meets with ACC 338.002/FIN 338.002.
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BA 591 is reserved for Global MBA students only.

U of M Schedule of Classes Page 431 of 481 WN 2020 2270 03-05-2020 12:03 22412849
Class will meet on Mondays in B3580 from 8am-10:20am and will reconvene in the +Impact studio from 10:30am to 12pm.

Healthcare in Emerging Markets

Students will travel to the specified country over spring break to interview relevant stakeholders.

The course is open by application only and enrollment is limited to 25 students.

Information Session for this class on Tuesday, October 31 5:30-6:30 pm in Ross 2240. Those interested are strongly encouraged to attend the Info Session.

Please see the following site for more information http://www.bus.umich.edu/CourseManagement/ViewCourseDescriptions.asp?course=685&dept=BA&term=W16

Information Session for this class on Tuesday, October 31 5:30-6:30 pm in Ross 2240. Those interested are strongly encouraged to attend the Info Session.

Please see the following site for more information http://www.bus.umich.edu/CourseManagement/ViewCourseDescriptions.asp?course=685&dept=BA&term=W16
Section 001 meets with Section 451.

524 Persuasive Mgt Comm 1.50
31057 PIRW REC 001 W 630-930PM R2210 BUS Zimmerman
17761 P RW REC 002 TTH 1240-210PM B3580 BUS Zimmerman

Prior to Fall 2014, this course was offered under the LHC subject area.

22249 PIRW REC 451 W 630-930PM R2210 BUS Zimmerman

Prior to Fall 2014, this course was offered under the LHC subject area.

561 Mgmt Presentations 1.50
16903 PIRW REC 001 MW 210-340PM B3560 BUS Kotzian

Prior to Fall 2014, this course was offered under the LHC subject area.

16916 P RW REC 002 M 630-930PM R2320 BUS Kotzian

BCOM 561.002 meets with BCOM 561.451. Prior to Fall 2014, this course was offered under the LHC subject area.

594 Written Manag Comm 1.50 ADVISORY, ENFORCED
17081 PIR REC 001 ARR ARR Young, Pawlik

This course is reserved for Global MBA students only. Prior to Fall 2014, this course was offered under the LHC subject area.

595 Oral Comm Mgmt 1.50 ADVISORY, ENFORCED
17082 PIR REC 001 ARR ARR Young, Pawlik

This course is reserved for Global MBA students only. Prior to Fall 2014, this course was offered under the LHC subject area.

750 Independent Study 1.00-3.00
I IND + ARR ARR

Business Economics And Public Policy (BE)

300 Applied Economics 3.00 ADVISORY
21568 P RW REC 002 TTH 10-1130AM R0210 BUS Masten, Feldman
21567 P RW REC 003 TTH 1130-1PM R0210 BUS Masten, Feldman

399 Indep Study Project 1.00-3.00 ADVISORY
IND + ARR ARR

410 Business Forecasting 3.00
29003 P RW REC 001 MW 1130-1PM B3570 BUS Thapar

435 Behav Con/Behav OM 3.00  25.00
33383 P RW REC 001 TTH 1130-1PM B3570 BUS Leider
33384 P RW REC 331 TTH 1130-1PM B3570 BUS Leider

533 Applied Microecon 2.25 ENFORCED
34127 P RW REC 451 M 6-730PM ARR Shwayder

533 Applied Microecon 2.25 ENFORCED
P RW REC 451 M 6-730PM ARR
P RW REC 451 M 6-730PM ARR
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533 Applied Microecon 2.25 ENFORCED
34129 P RW REC 452 M 8-930PM ARR Shwayder

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P RW REC 452 M 8-930PM ARR
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533 Applied Microecon 2.25 ENFORCED
31803 P RW REC 801 M 6-730PM ARR Shwayder

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32973 P RW REC 802 M 8-930PM ARR Shwayder

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562 Growth Stbl Macro Ec 2.25 ADVISORY, ENFORCED
21608 PIRW REC 001 TTH 8-1020AM R0230 BUS Shwayder

Section 001 meets with Section 451.

570 Tax Policy&Business 1.50 ADVISORY
31804 PIRW REC 001 MW 830-10AM R1230 BUS Slemrod

585 Compet Tact&Policy 2.25 ADVISORY, ENFORCED
22244 P RW REC 001 TTH 1020-1240PM R0220 BUS Shwayder

Section 001 meets with Section 451.

591 Applied Microecon 2.25 ADVISORY
21570 PI REC 001 ARR ARR Buchmueller

BE 591 is reserved for Global MBA students only.

619 Incentive & Prodctv 2.25
28509 PIRW REC 001 TTH 1020-1240PM B1560 BUS Sivadasan
30213 PIRW REC 002 TTH 230-450PM R2230 BUS Sivadasan

Section 451 meets with Section 002.
Section 451 meets with Section 002. Seats in this section are reserved for Evening MBA students.

30403  P RW REC 001  MW  210-430PM  R0210 BUS  Leider
30404  P RW REC 451  MW  210-430PM  ARR  Leider

688  Hlth Pol Residential
29060  P R SEM 001  ARR  ARR  Buchmueller

BE 688.001 is an off-site course taught in Washington, D.C. Winter 2020 session dates are May 4-8, 2020.

750  Indep Study Project
   I  IND +  ARR  ARR

397  Independent Study
   I  IND +  ARR  ARR

404  Entrepreneurship Law
29035  P RW REC 001  TTH  1-230PM  R0240 BUS  Schipani

407  Fin & Bnkng Law
24914  P RW REC 001  MW  10-1130AM  R2310 BUS  Kress
31805  P RW REC 002  MW  1130-1PM  R2310 BUS  Kress

411  CrossCult Neg&Resol
29967  PIR REC 618  T  4-6PM  R0210 BUS  Schipani

413  Law of Marketing
25030  P RW REC 001  MW  1-230PM  R1240 BUS  Rogala

482  Real Est Law
17085  P RW REC 001  TTH  4-530PM  R1230 BUS  Schloff

488  Bus&Public Policy
17865  PIR SEM 001  T  530-730PM  B2560 BUS  Bishara

504  Legal Asp Entrepshp
24125  PIRW REC 001  MW  1020-1240PM  R0240 BUS  Schipani

507  Fin & Banking Law
24915  P RW REC 001  T  630-930PM  R1240 BUS  Kress

513  Law of Marketing
27126  PIRW REC 001  TTH  850-1020AM  R0240 BUS  Rogala

517  Law of Bus Org
24126  PIRW REC 001  MW  1020-1240PM  R0240 BUS  Schipani

555  Ethics & Negotiation
24486  P RW REC 001  TTH  1020-1240PM  R0240 BUS  Hess

582  Real Estate Law
17144  PIRW REC 001  TTH  4-530PM  R1230 BUS  Schloff

BL 482 (for undergraduates) meets with BL 582.001/BL 582.451 (for MBA & MAcc students) and follows the Graduate Business calendar. Students cannot receive credit for taking both courses. No JDs or JD-students.

585  Legal & Ethical Envt
22875  PIR REC 001  TTH  1-230PM  R0210 BUS  Rogala

Seats in this course are reserved for students in the Master of Management program.

688  Washington Campus
16700  PI SEM 001  ARR  ARR  Kress
Business and the Public Policy
BL 688 is an off-site course taught in Washington, D.C. Only selected students receive permission to register. For more information, contact rossgradacadadvising@umich.edu.

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International Corporate Governance

26431 P R REC 603 ARR ARR Patterson

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**EU After Brexit**
This class translates to .5 UM credits. If a student/students elect this class, submit CARF to update credits to .5 hours.

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Executive Master of Business Administration (EMBA)

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**Important:** Contact instructor for materials to be read before first day of class. Must attend all dates.
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### 302 Making Fin Decisions

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For faculty answers to common questions on enrollment, please read [https://leiq.bus.umich.edu/docs/Fin302_Enrollment_FAQ.pdf](https://leiq.bus.umich.edu/docs/Fin302_Enrollment_FAQ.pdf).

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Prior to Winter 2015, this course was offered as FIN 309.

24179 P RW REC 321 M 1-4PM B2560 BUS Mitra

24180 P RW REC 322 M 630-930PM B2560 BUS Mitra

422 Behavioral Finance 3.00 ADVISORY

15405 P RW REC 001 W 7-10PM R0210 BUS Brophy

Prior to Winter 2015, this course was offered as FIN 325.

24374 P RW REC 321 W 7-10PM R0210 BUS Brophy

428 FinTech Innovations 3.00 ADVISORY

28030 P RW REC 001 TTH 230-4PM R0400 BUS Shumway

425 Entrepreneurial Fin 3.00 ENFORCED

15405 P RW REC 001 W 7-10PM R0210 BUS Brophy

Prior to Winter 2015, this course was offered as FIN 325.

24374 P RW REC 321 W 7-10PM R0210 BUS Brophy

428 FinTech Innovations 3.00 ADVISORY

28016 P RW REC 332 MW 1-230PM ARR Wu, Dittmar

2019: FIN 565.001 is cross-listed with URP 593.001 and meets with FIN 565.451/URP 593.451 in R0240. Section 451 meets with Section 001.

22484 PIRW REC 451 W 630-930PM ARR Allen

2019: FIN 565.001 is cross-listed with URP 593.001 and meets with FIN 565.451/URP 593.451 in R0240. Section 451 meets with Section 001. This section is reserved exclusively for Evening MBA students.

583 Energy Project Fin

22579 PIRW REC 001 T 630-930PM R1230 BUS Bigelow

609 Fix Inc Secur&Mkts

31809 P R REC 001 MW 1020-1240PM R2210 BUS Mitra

Students interested in FIN 615 should have already completed FIN 505, 513, 501, or 591 by the time the class begins.

20011 PIRW REC 002 MW 210-430PM R2210 BUS Carmel

Students interested in FIN 615 should have already completed FIN 503, 513, 501, or 591 by the time the class begins.

621 Corp Finan Policy

31823 PIRW REC 002 TTH 8-1020AM R1220 BUS Purnanandam

626 Globi Private Equity

18625 PIRW REC 001 MW 1240-210PM R0210 BUS Brophy

FIN 626 is cross-listed with ES 626. Section 001 meets with Section 451.

25336 PIRW REC 451 MW 1240-210PM ARR Brophy

FIN 626 is cross-listed with ES 626. Section 001 meets with Section 451. Section 451 is reserved for Evening MBA students.

Prior to Winter 2015, this course was offered as FIN 366. No prior real estate knowledge or coursework is necessary to enroll in this course.

24366 P RW REC 331 MW 1-230PM B0570 BUS Soo

27124 P RW REC 001 T 1-4PM B1560 BUS Lei

27125 P RW REC 002 T 630-930PM B1570 BUS Lei

565 Real Estate Dev:Fund

22484 PIRW REC 451 W 630-930PM R0240 BUS Allen

2019: FIN 565.001 is cross-listed with URP 593.001 and meets with FIN 565.451/URP 593.451 in R0240. Section 451 meets with Section 001. Section 451 is reserved for Evening MBA students.

566 Real Est Fin&Invest I

22281 PIRW REC 001 W 630-930PM R1230 BUS Soo

22282 PIRW REC 451 W 630-930PM R1230 BUS Soo

567 Real Est Fin&Invest II

28938 P RW REC 001 W 630-930PM R2210 BUS Soo

Section 451 meets with Section 001.

28939 P RW REC 351 W 630-930PM R2210 BUS Soo

Section 451 meets with Section 001. This section is reserved exclusively for Evening MBA students.

580 Corp Fin Derivatives

16900 PIRW REC 001 TTH 1020-1240PM R0230 BUS Hall

Section 001 meets with Section 451.

583 Energy Project Fin

22579 PIRW REC 001 T 630-930PM R1230 BUS Bigelow

609 Fix Inc Secur&Mkts

31809 P R REC 001 MW 1020-1240PM R2210 BUS Mitra

Students interested in FIN 615 should have already completed FIN 505, 513, 501, or 591 by the time the class begins.

20011 PIRW REC 002 MW 210-430PM R2210 BUS Carmel

Students interested in FIN 615 should have already completed FIN 503, 513, 501, or 591 by the time the class begins.

621 Corp Finan Policy

31823 PIRW REC 002 TTH 8-1020AM R1220 BUS Purnanandam

626 Globi Private Equity

18625 PIRW REC 001 MW 1240-210PM R0210 BUS Brophy

FIN 626 is cross-listed with ES 626. Section 001 meets with Section 451.

25336 PIRW REC 451 MW 1240-210PM ARR Brophy

FIN 626 is cross-listed with ES 626. Section 001 meets with Section 451. Section 451 is reserved for Evening MBA students.
students.

638 FinTech Innovations 3.00
30633 PIRW REC 001 MW 230-4PM B3570 BUS Wu, Dittmar
30859 PO REC 001 MW 830-10AM ARR Wu, Dittmar

640 Financial Trading 1.50
29028 P RW REC 001 TTH 1240-210PM R0400 BUS Shumway
29029 P RW REC 451 TTH 1240-210PM ARR Shumway

702 Real Estate Fund I 1.50
26132 PI REC 001 M 430-630PM ARR Sheinberg
26133 PI REC 002 M 430-630PM R2320 BUS Sheinberg

703 Real Estate Fund II 3.00
24623 PIR REC 001 M 430-630PM R2320 BUS Sheinberg

Instructor consent required to register.

704 Intl Inv Fund 3.00
37566 PI REC 002 M 6-9PM ARR Kaul
37567 PI REC 452 ARR ARR Kaul

726 Maize and Blue Fund 1.50
20212 PI REC 001 T 630-930PM ARR Dittmar

FIN 726.001 is cross-listed with ACC 726.001 and meets with FIN/ACC 336.001 in R0400.

728 Maize & Blue Fund SR 1.50
21662 PI REC 001 T 630-930PM ARR Dittmar

ACC 728.001 is cross-listed with FIN 728.001 and meets with ACC 338.001/ FIN 338.001 in R0400.

750 Indep Study Project 1.00-3.00
872 Theor Models Fin II 1.50
29059 P RW SEM 001 ARR ARR Mitra

873 Structural Estimat 1.50
27746 PIRW REC 001 W 1-4PM R5020 BUS Whited

875 Emprcl Methdgy Fin 1.50
28510 P RW REC 001 W 1-230PM R2240 BUS Collins

885 Res Top in Finance 1.50
19319 P R SEM 001 ARR ARR Whited
Seats in this class are reserved for Finance PhD students.

900 Special Research 1.00-6.00
990 Diss-Precand 1.00-8.00
995 Diss-Cand 8.00

Marketing (MKT)

300 Marketing Mgmt I 3.00
24155 P RW REC 001 TTH 1-230PM R1230 BUS Tasoluk
30737 P RW REC 002 TTH 1130-1PM R1230 BUS Tasoluk

This section of MKT 300 is reserved for BBA Sophomores and BBA Juniors.

24156 P RW REC 003 TTH 1130-1PM R2220 BUS Huang
28510 P RW REC 003 MW 830-10AM R0230 BUS Collins

Section 003 meets with Section 313. Seats in Section 313 are reserved exclusively for students in the Minor in Business.

27122 P RW REC 311 TTH 10-1130AM R2240 BUS Cheon
27123 P RW REC 312 TTH 1-230PM R2240 BUS Ku

Section 002 meets with Section 312.

310 Fundmntls Sales Mgt 3.00
19320 P RW REC 001 T 230-530PM R2240 BUS Carter
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U of M Schedule of Classes Page 460 of 481 WN 2020 2270 03-05-2020 12:03 22412849
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Management and Organizations (MO)

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<th>LAB</th>
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2019: Speaker event dates and locations TBA.

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U of M Schedule of Classes | Page 461 of 481 | WN 2020 2270 03-05-2020 12:03 22412849
Meets with MO 555. The majority of MO 455/555 seats are reserved for students in a Center for Positive Organizations student program. There are additional but limited seats open to students of all majors outside of this student program, and are set aside for permission by instructor only. Please email cpo-learning-programs@umich.edu to be considered for enrollment.

512 Bargain & Infl Skills 2.25
27926 P RW REC 301 MW 10-1130AM B3570 BUS Spreitzer, Erwin
Section 001 meets with Section 321. This section is reserved exclusively for Minor in Business Management students.

468 Thriving at Work 3.00
Section 001 meets with Section 321. This section is reserved exclusively for Minor in Business and Master of Management students.

510 Bus in Democracy 1.50
33337 PIRW REC 001 TTH 850-1020AM R1210 BUS Hoffman
34619 PIRW REC 451 TTH 850-1020AM ARR Hoffman

512 Bargain & Infl Skills 2.25
25532 PIRW REC 001 MW 1020-1240PM B3580 BUS Kopelman
Given the experiential nature of pedagogy, enrollment in each section will be limited and attendance is mandatory. Registered students must be present from the beginning of the first class session to retain their registration in the class. This course is complementary to BL 510. Students interested in developing strong negotiation skills are encouraged to take both MO 512 and BL 510 in either order.

17762 PIRW REC 003 TTH 1020-1240PM B3580 BUS Kopelman
Given the experiential nature of pedagogy, enrollment in each section will be limited and attendance is mandatory. Registered students must be present from the beginning of the first class session to retain their registration in the class. This course is complementary to BL 510. Students interested in developing strong negotiation skills are encouraged to take both MO 512 and BL 510 in either order.

16993 PIRW REC 004 TTH 210-430PM B3580 BUS Kopelman
Given the experiential nature of pedagogy, enrollment in each section will be limited and attendance is mandatory. Registered students must be present from the beginning of the first class session to retain their registration in the class. This course is complementary to BL 510. Students interested in developing strong negotiation skills are encouraged to take both MO 512 and BL 510 in either order.

21590 P RW REC 006 TTH 210-430PM R0220 BUS Morgan
Given the experiential nature of pedagogy, enrollment in each section will be limited and attendance is mandatory. Registered students must be present from the beginning of the first class session to retain their registration in the class. This course is complementary to BL 510. Students interested in developing strong negotiation skills are encouraged to take both MO 512 and BL 510 in either order.

34193 PIRW REC 331 TTH 6-730PM ARR Greer, Sytch
34193 PIRW REC 331 TTH 6-730PM ARR Greer, Sytch
34193 PIRW REC 331 TTH 6-730PM ARR Greer, Sytch

34125 P RW REC 451 T 6-730PM ARR Greer, Sytch
34125 P RW REC 451 T 6-730PM ARR Greer, Sytch
34125 P RW REC 451 T 6-730PM ARR Greer, Sytch

34125 P RW REC 452 T 8-930PM ARR Greer, Sytch
34125 P RW REC 452 T 8-930PM ARR Greer, Sytch
34125 P RW REC 452 T 8-930PM ARR Greer, Sytch

31833 P RW REC 801 T 6-730PM ARR Greer, Sytch
31833 P RW REC 801 T 6-730PM ARR Greer, Sytch
31833 P RW REC 801 T 6-730PM ARR Greer, Sytch

33976 P RW REC 802 T 8-930PM ARR Greer, Sytch
33976 P RW REC 802 T 8-930PM ARR Greer, Sytch
33976 P RW REC 802 T 8-930PM ARR Greer, Sytch

U of M Schedule of Classes Page 462 of 481 WN 2020 2270 03-05-2020 12:03 22412849
<table>
<thead>
<tr>
<th>CAT#</th>
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<td>Compet Glob Bus Env</td>
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<td>Study Abroad</td>
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<td>Compet Glob Bus Env</td>
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**Organizations student program. There are additional but limited seats open to students of all majors outside of this program, and are set aside for permission by instructor only. Please email cpo-learning-programs@umich.edu to be considered for enrollment.**
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<tr>
<td>24168</td>
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<tr>
<td>29058</td>
<td>PIRW REC 050 MW 12:40-2:10PM R2210 BUS Wan</td>
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<tr>
<td>25735</td>
<td>PIRW REC 451 TH 6:30-9:30PM R0220 BUS Wan</td>
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STRATEGY 503.451 is reserved for Evening MBA students and meets with STRATEGY 503.002/020.

18132 | P IR REC 452 ARR ARR Wainright                  |    |         |         |

**520 Doing International Bus**

28455 | PIR REC 603 ARR ARR Wainright                   | 3.00| ADVISORY, ENFORCED|

Germany

Program: Special Topics at the European MBA Summer Institute. Registration for BUSABRD/STRATEGY 520 requires approval through the Global Initiatives office.

24565 | PIR REC 604 ARR ARR Wainright                   |    |         |         |

China

Registration for STRATEGY 520 requires approval through the Global Initiatives office.

24566 | PIR REC 612 ARR ARR Wainright                   |    |         |         |

Israel

Registration for STRATEGY 520 requires approval through the Global Initiatives office.

538 World Economy 1.50

Seats in this course are reserved for students in the Master of Management program.

566 Sys Devel Enterprise 3.00

601 Corporate Strategy 3.00 ENFORCED 58.00

609 Health Care Strategy 2.25 ADVISORY

25323 | P RW REC 451 MW 10:20-12:40PM R2240 BUS Killaly, Lewis |    |         |         |

Section 001 meets with Section 451.

25324 | P RW REC 451 MW 10:20-12:40PM R2240 BUS Killaly, Lewis |    |         |         |

Section 001 meets with Section 451.

623 Global Strategy 2.25 ADVISORY 49.00

31849 | P RW REC 001 TTH 10:20-12:40PM B0560 BUS Rider    |    |         |         |

31850 | P RW REC 002 TTH 10:20-12:40PM B1560 BUS Rider    |    |         |         |

624 Platforms of VCC 3.00 65.00

681 Strat Mgt Alliances 2.25 ADVISORY

18629 | P RW REC 001 MW 10:20-12:40PM R2220 BUS Jensen    |    |         |         |

Section 001 meets with Section 451.

16899 | P RW REC 002 MW 10:20-12:40PM R2220 BUS Jensen    |    |         |         |

25338 | P RW REC 451 MW 10:20-12:40PM R2220 BUS Jensen    |    |         |         |

Section 001 meets with Section 451. Section 451 is reserved for Evening MBA students.

682 Merg Acq & Corp Dev 2.25 ADVISORY

28076 | P RW REC 001 TTH 10:20-12:40PM R0230 BUS Wu       |    |         |         |

Entry in this class will not be based on waitlist order.

28617 | P RW REC 002 TTH 10:20-12:40PM R0230 BUS Wu       |    |         |         |

Section 451 meets with Section 002.

28618 | P RW REC 451 TTH 10:20-12:40PM R0230 BUS Wu       |    |         |         |

Section 451 meets with Section 002. This section is reserved exclusively for Evening MBA students.

750 Indep Study Project 1.00-3.00

898 Doc Sem Corp Strat 1.50 ADVISORY

19896 | P RW SEM 001 ARR ARR Jensen                    |    |         |         |

20379 | P RW SEM 002 ARR ARR Siegel                   |    |         |         |

900 Doctoral Research 1.00-6.00

990 Diss Preand 1.00-8.00

995 Diss Cand 8.00 ENFORCED

Technology and Operations (TO)

300 Bus Info Systems 1.50

302 Managing Bus Ops 3.00 ENFORCED 95.00

24924 | P RW REC 001 TTH 11:30-12:30PM R2240 BUS Mughal |    |         |         |

302 Managing Bus Ops 3.00 ENFORCED 95.00

302 Managing Bus Ops 3.00 ENFORCED 95.00

Section 001 meets with Section 311.

302 Managing Bus Ops 3.00 ENFORCED 95.00

302 Managing Bus Ops 3.00 ENFORCED 95.00

Section 311 meets with Section 001 and is reserved exclusively for Minor in Business students.

399 Independent Study 1.00-3.00

411 Support With Excel 3.00 ENFORCED

26083 | PIRW REC 001 TTH 8:30-10:00AM R0320 BUS Maclean  |    |         |         |
### Section 001 meets with Section 311

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<td>20803</td>
<td>PIRW REC 003</td>
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<td>230-4PM</td>
<td>R0320 BUS</td>
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<td>16343</td>
<td>PIRW REC 004</td>
<td>TTH</td>
<td>10-1130AM</td>
<td>R0320 BUS</td>
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Non-Ross students interested in taking TO 411 should reach out to the instructor for permission to enroll.

Section 001 meets with Section 311. Seats in Section 311 are reserved exclusively for Business Minor students.

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<td>24926</td>
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<td>1130-1PM</td>
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<tr>
<td>24927</td>
<td>P RW REC 332</td>
<td>MW</td>
<td>1130-1PM</td>
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Non-Ross students interested in taking TO 414 should reach out to the instructor for permission to enroll.

Section for Master of Management students only.

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<td>28007</td>
<td>P RW REC 331</td>
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2019: Section 331 meets with Section 001 in BLAU1560. Seats in this section are reserved exclusively for Master of Management students.

<table>
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2019: Section 332 meets with Section 002 in BLAU1560. Seats in this section are reserved exclusively for Master of Management students.

<table>
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<td>PD REC 601</td>
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<td>1130-1PM</td>
<td>B3570 BUS</td>
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<tr>
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<td>TTH</td>
<td>1130-1PM</td>
<td>B3570 BUS</td>
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Students are required to enroll in both ARTDES 416 (Stamps School of Art & Design) and TO 448 (Ross School of Business).

Students should plan to attend 1/2 day Design Charrette on Saturday January 25, 2020.

<table>
<thead>
<tr>
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Section 321 meets with Section 001. Seats in this section are reserved for Minor in Business students and Master of Management students.

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Section 322 meets with Section 002. Seats in this section are reserved for Minor in Business students and Master of Management students.

<table>
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<td>16898</td>
<td>PIRW REC 003</td>
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<td>630-930PM</td>
<td>R0210 BUS</td>
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<td>M</td>
<td>630-930PM</td>
<td>R0210 BUS</td>
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</tbody>
</table>
The document contains a schedule for a course offering in Winter 2020. It lists various classes with their codes, days, times, locations, instructors, and descriptions. Some classes are cross-listed with other courses. Specific details include:

- **Operations Management (552)**: Offered by the Department of Management and rejected exclusively for Evening MBA students.
- **Linear Programming (518)**: Offered in three sections with different instructors and times.
- **Global Supply Chain Management (620)**: Offered in multiple sections with cross-listing and specific requirements for MBA students.
- **Information Technology (628)**: Offered with specific times and locations.

The document highlights that some classes are restricted to specific student groups or programs, ensuring that students are enrolled in the appropriate courses based on their academic needs or program requirements.
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
<th>CR</th>
<th>INSTRUCTOR</th>
</tr>
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<tbody>
<tr>
<td>24704</td>
<td>P RW REC 001 TTH</td>
<td>1.50</td>
<td>Kumar</td>
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<tr>
<td></td>
<td>Non-Ross students interested in taking TO 628 should reach out to the instructor for permission to enroll.</td>
<td></td>
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<tr>
<td>25341</td>
<td>PIRW REC 451 TTH</td>
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<td></td>
<td>Section 001 meets with Section 451. Section 451 is reserved for Evening MBA students.</td>
<td></td>
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<tr>
<td>632</td>
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<td>Kumar</td>
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<tr>
<td>633</td>
<td>AI for Business</td>
<td>2.25</td>
<td>Ramaswamy</td>
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<tr>
<td>635</td>
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<td>2.25</td>
<td>Leider</td>
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<tr>
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<td>703</td>
<td>Tauber Inst Team Pr</td>
<td>1.50</td>
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<td>703</td>
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<tr>
<td>750</td>
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**Weekend Master of Business Administration (WMBA)**

<table>
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<tr>
<td>509</td>
<td>Human Beh and Org</td>
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<td>Human Beh and Org</td>
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U of M Schedule of Classes Page 467 of 481 WN 2020 2270 03-05-2020 12:03 22412849
<table>
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<tr>
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<td>Human Beh and Org</td>
<td>2.25</td>
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<td>180.00</td>
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</tbody>
</table>

Seats in this course are reserved exclusively for students in the WMBA program.

| 510   | MAP                       | 6.00|         |         |

| 512   | The World Economy         | 2.25|         |         |

Seats in this course are reserved for students in the WMBA program.

| 513   | C-Level Thinking          | 3.00|         |         |

| 513   | C-Level Thinking          | 3.00|         |         |

| 513   | C-Level Thinking          | 3.00|         |         |

| 513   | C-Level Thinking          | 3.00|         |         |

| 604   | Leadership Developmt      | 2.25| ADVISORY| 118.00  |

| 604   | Leadership Developmt      | 2.25| ADVISORY| 118.00  |

| 615   | Global Strategy           | 1.50|         |         |

| 621   | New Age of Innovtn        | 2.25|         | 39.00   |

| 631   | Corporate Governance      | 1.50|         | 57.00   |

Seats in this class are reserved exclusively for WMBA students.
Social Work
School Of Social Work

Social Work (SW)

200  Soc Issu of Our Time 3.00
29526  P  SEM 001  10-1130AM  G023 WQ  Galura
Understanding COMM ACT SOC CHG

300  UG Topics SW Soc Chg 1.00
24595  P  SEM 001  9-5PM  G020 TMC  Williams

Understanding COMM ACT SOC CHG

305  Comm Action Soc Chg 3.00 ADVISORY
22507  P  LEC 001  2-5PM  3629 SSWB  Monper
27708  P  LEC 002  1230-2PM  3629 SSWB  Chaney

This is the foundation course for undergrads minoring in Community Action and Social Change (CASC).
Undergraduate credit only. MSW students should not be enrolling in this course.

33558  P  LEC 004  M  1-4PM  1636 SSWB  Richards-Schuster

401  CASC Capstone Exp 1.00
20600  PD  LEC 001  T  5-7PM  B760 SSWB  Williams

This is an undergraduate CASC minor course. MSW students should not enroll in this course.

21268  PD  LEC 002  T  5-7PM  B770 SSWB  Galura

This is an undergraduate CASC minor course. MSW students should not enroll in this course.

21620  PD  LEC 003  W  5-7PM  3752 SSWB  Williams

This is an undergraduate CASC minor course. MSW students should not enroll in this course.

415  Ind Studies: SW 1.00-3.00 ADVISORY
33308  P  LEC 001  M  5-7PM  3629 SSWB  Eiler

Evolution of Social Chg/Sports

503  Foundation Topics SW 1.00
33308  P  LEC 001  M  5-7PM  3629 SSWB  Eiler

513  Topics in Social Work 1.00
33833  P  LEC 001  T  2-5PM  2346 SEB  Goldman

515  Fndtn Field Educ 2.00 ENFORCED
IR  IND +  ARR  ARR

Enrollment is not permitted in this section. Select another section.

517  Ind Studies Aging 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

518  Ind Studies Aging 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

519  Ind Stds Hum Behav 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

520  Ind Stds Hum Behav 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

521  IP Indiv Fam Groups 3.00 ENFORCED
16170  P  LEC 001  W  9-12PM  2629 SSWB  Bornheimer
24619  P  LEC 002  T  6-9PM  2752 SSWB  Lee

This section will be taught as a 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 will meet in person, in class on the following dates: January 14, 21, February 11, March 10, 31, April 14.

522  Basic Soc Work 3.00 ENFORCED
17039  P  LEC 001  M  9-12PM  B760 SSWB  Blackburn
16622  P  LEC 002  M  2-5PM  B684 SSWB  Blackburn
19534  P  LEC 003  T  6-9PM  3752 SSWB  Schultz
24397  P  LEC 004  T  2-5PM  B770 SSWB  Fedina
27108  P  LEC 005  T  2-5PM  B780 SSWB  Schultz
27737  P  LEC 007  M  2-5PM  2752 SSWB  Fedina
36831  PDR  LEC 008  T  6-9PM  B780 SSWB  Fedina

523  Ind Stds Inperprac 1.00-3.00 ADVISORY
SI  IND +  ARR  ARR

524  Ind Stds Inperprac 1.00-3.00 ADVISORY
SI  IND +  ARR  ARR

525  Ind Stds Chld&Yth 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

526  Ind Stds Chld&Yth 1.00-3.00 ADVISORY
I  IND +  ARR  ARR

527  Ind Std Peace Corp 1.00-6.00 ADVISORY
I  IND +  ARR  ARR

528  Ind Stds in Global 1.00-3.00 ADVISORY
SI  IND +  ARR  ARR

531  Fndtn Field Educ Sem 1.00 ENFORCED
13475  PDR  SEM 001  T  12-2PM  1636 SSWB  Eldredge

Concurrent enrollment in SW 515 is expected.
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<td>532</td>
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<td>534</td>
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<td>ARR</td>
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<tr>
<td>540</td>
<td>Trauma Basics</td>
<td>ARR</td>
<td>Herrenkohl</td>
</tr>
<tr>
<td>542</td>
<td>Trauma Systems</td>
<td>ARR</td>
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<td>ARR</td>
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<td>555</td>
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<tr>
<td>560</td>
<td>CO Mgt Pol Eval Prac</td>
<td>ARR</td>
<td>Shanks</td>
</tr>
</tbody>
</table>

This is a hybrid course which means that you will have a combination of web-based class sessions and face to face class sessions. This course will meet in person, in class on February 22 and all pre-learning work must be complete prior to this required session.

This course is available only to Social Work, Nursing, and Education students. SW students must request enrollment under SW 540. Nursing students under HS 540; Education students under EDUC 540. This course is by departmental consent only.

SW students: For possible permission to register the Permission Request form for Trauma Basics (540) must be submitted: https://ssw.umich.edu/my-ssw/class-related-forms

For priority in consideration of possible enrollment permission submit the form by November 14, 2019.

For this section the course will be taught as a 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 will meet in person, in class on the following dates: Jan 13, Feb 10, Mar 16, Mar 30, Apr 13.
<table>
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<tr>
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<td>30652</td>
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<td>566</td>
<td>Ind Stds Mgt Hum /SSW</td>
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<td>567</td>
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<td>572</td>
<td>Disability Studies /SSW</td>
<td>Kupetz</td>
<td>1.00-3.00</td>
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<td>573</td>
<td>Service - Hlth Prof /SSW</td>
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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. Pharmacy 503, PubHlth 503, and Social Work 573, Kines 581, and MoveSci 481 are cross listed courses. If you would like to register, please send a request (including your student ID#) to: ServiceForHealth@umich.edu.
In an era of evidence-based practice, community workers, advocates, and evaluators will likely find that they need to interpret and visualize data from a wide variety of sources. Understanding, interpreting, and visualizing data (including some basic coding) can make the difference in successfully or unsuccessfully advocating for communities, clients, or programs, as well as understanding the impact of programs on clients. Increased, data relevant to community, participant, and client well-being are available from a broad range of sources, whether those be databases of volunteers and donors, the Census, the World Bank, and in addition to many others. This course will be focused on the acquisition of concrete applicable skills and strategies for interpreting and visualizing community data, including learning in R, Tableau, and QGIS.
This course will apply African-centered values and principles in historical and contemporary context to the implementation of traditional methods in interpersonal practice with African American families. The course is bounded by a strengths and resilience framework in which students will 1) obtain an overview of the African worldview and the history, culture of African-descended people; 2) become familiar with literature that exemplifies the integration of the Africentric perspective in practice with African American families; and 3) utilize the case study method to apply knowledge gained. The course will be offered in a seminar format in which students have an active role in structuring their own learning, building on content delivered by guest lecturers and utilizing relevant reading materials (course pack), experiential activities and electronic media.

33747 P  LEC 003  F 12-1PM 1794 SSWB Barinbaum

Pre-requisite: SW 515/531

This course examines disparities and inequities in acute, chronic, mental and physical health status and outcomes for diverse racial and ethnic groups in the United States. The life course health development (LCHD) framework and intersectionality and health equity (HE) perspectives are major organizing themes. Course content includes exploration of the socio-historical background and structural drivers (e.g., racism/White supremacy, sexism, colonialism) of health disparities/inequities and critiques of current explanatory models and frameworks (e.g., behavioral/lifestyle, Weathering Hypothesis, social determinants of health, structural factors, and systems perspectives). Students will gain an understanding of ethical and professional imperatives for confronting racial and ethnic health disparities/inequities and Social Work roles and strategies for their eradication.

36017 PD  LEC 005  ARR ARR Crabb

Prep for National SW Practice

This class is to prepare National Community Scholars for professional practice outside of and away from the University Social Work community. We will examine the organizations where students are placed so that students are prepared to start quickly. Students will participate in trainings about entering and exiting communities and will examine the impact of their positionalities, assumptions, values and identity a practice framework that is ethical, relevant and effective to their new community setting. Students will explore skill sets available to learn in their new setting and identify how they might learn them in their national placement.

27739 P  LEC 004  T 9-12PM B770 SSWB Okasinski

Team-Based Decisions

Registration is limited to Pharmacy, Social Work, Dentistry, Medical, and Nursing students who are eligible to enroll. Students will be assigned to an interdisciplinary group that will rotate between different buildings across campus. An email notifying students about their group and room assignments will be sent before the first class meeting.

Social Work students: Priority is given to Detroit Clinical, Integrated Health, and HRSA Scholars. Scholars will receive an electronic permission to enroll in this course prior to registration. All others interested should submit the Course Enrollment Petition via the SSW web site, https://ssw.umich.edu/my-ssw/class-related-forms.

26906 P  LEC 001  TH 4-7PM 1123 SPH2 Chatters

Child Welfare Scholars and those that have applied for the Child Welfare Certificate that are expected to enroll in this class Winter term will receive an electronic permission to enroll in this course prior to registration. Others will need to submit a Course Enrollment Petition via the SSW web site, https://ssw.umich.edu/my-ssw/class-related-forms.

13453 PDR  LEC 001  M 6-9PM B798 SSWB Ortega

Interdisc Prob Solv

U of M Schedule of Classes Page 473 of 481 WN 2020 2270 03-05-2020 12:03 22412849
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system at [https://problemsolving.law.umich.edu/](https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

<table>
<thead>
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<th>Course Title</th>
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<td>LAB 001  W</td>
<td>430-630PM</td>
<td>0220 JEFFRIES</td>
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Connected Vehicles Sitzn Diff
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between standardization, which enhances compatibility and interoperability, and differentiation. Students will consider which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and what role regulation should play in standardization. Student teams will incorporate ideas from law, engineering, information, business, and other fields to develop an innovative tool.

This class 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.

Non-law graduate/professional students may apply for the course using the PSI application system at [https://problemsolving.law.umich.edu/](https://problemsolving.law.umich.edu/) November 4-18, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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</table>

Campus Sex. Misconduct Prev.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Campus sexual misconduct affects many students in the U.S., with health, social, economic, and academic consequences. Universities struggle to fashion effective policies and other responses in the face of external political, legal, and social pressure. In this class, multidisciplinary teams of students will explore solutions to campus sexual misconduct, drawing on knowledge and expertise from law, nursing, public policy, social work, public health, sociology, education, organizational studies, and other disciplines to develop a novel solution to the problem.

This class 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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Info Privacy, Surv. Exposure
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Today's information and communication technologies create opportunities for surveillance, tracking, and privacy infringements. Students will learn about privacy risks that a variety of exposure-sensitive populations face, including marginalized groups, immigrants, journalists, abuse survivors, and children. Multidisciplinary student teams will leverage insights from design thinking, law, information, public policy, and other disciplines to develop novel privacy solutions for such susceptible groups.

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Hum Rights Mineral Supply Chain
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The extraction of minerals used to manufacture automobile components, including electric vehicle batteries, comes at a high cost. Multidisciplinary teams of students will study the human rights implications of this supply chain, and their research will be informed by auto industry, NGO, and stakeholder perspectives. Students will incorporate insights from international law, business, engineering, environmental sciences, technology, and other fields to develop a solution for industry to implement.

This class 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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Challenges Deliver MI Soc Svcs

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The federal government funds many crucial social services for the poor. However, individual states -- which are rarely the focus of policy debates about social services -- are usually responsible for overseeing the provision of those services. This course will focus on emerging challenges to the delivery of social services in Michigan, including Medicaid, food stamps, and TANF. Working closely with officials from the Michigan Department of Health and Human Services, students will devise potential solutions to problems with the administration of state benefits for vulnerable populations.

This class 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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**741 Interdisc Prob Solv** 3.00 ADVISORY

P LAB 005 W 430-630PM 1225 JEFFRIES

Challenges Deliver MI Soc Svcs

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For specific topic description go to the School of Social Work web site. https://ssw.umich.edu/courses
Course Description
Traditional cooking methods in Sub-Saharan Africa are typically inefficient. Basic, hand built cook stoves can reduce firewood use by 50% improving forest health and reducing girl chores. Eco-Explorers will meet once a week during winter term in preparation for a 3 week June Design Build trip in Tanzania. Language and cultural preparation, test stove design build and design process documentation will be completed prior to the field component. The June trip will include a study tour to major wildlife park areas of Tanzania, a project site visit to a Peace Corps Volunteer and 2 weeks living with Masai families during the design / build process. Enrollment by application / permission of instructor.
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Course Description

Through intensive studio sessions, this course focuses on drawing from the live model, both clothed and unclothed. Students investigate ways the figure is used and referenced in the work of contemporary artists and explore strategies for using the figure in drawings that are creative and expressive in nature. The goals of this course include gaining a better understanding of the figure and its significant role in the history of art, improving figure drawing skills, and pursuing unique methods of personal expression through the use of the figure in drawing.

176 Graphic Design

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21st Century Notice: Non-Stamps Graduate Students must contact Professor John Marshall (johnjm@umich.edu) for permission to enroll in this course.

**Design Studio II**

- **661** Design Studio II 4.00
  - 24270 PD LAB 001 F 1-5PM ARR Trumpey

**Design Advisory**

- **663** Design Advisory 2.00
  - 24553 PD LAB 001 ARR ARR Bennett
  - 24554 PD LAB 002 ARR ARR Tobier
  - 24556 PD LAB 004 ARR ARR Bruecker
  - 24557 PD LAB 005 ARR ARR Murdoch-Kitt
  - 33784 PD LAB 006 ARR ARR Bruecker

**MFA Critique**

- **706** MFA Critique 3.00
  - 25613 PD LAB 001 F 1-4PM ARR Khan

**MFA Thesis Studio**

- **711** MFA Thesis Studio 6.00
  - 17528 PD LAB 001 F 10-1230PM ARR Chung
  - 24558 P LAB 002 F 10-1230PM ARR Chung
  - 24559 P LAB 003 F 10-1230PM ARR Cogswell Jr
  - 24560 P LAB 004 F 10-1230PM ARR Graf

**MFA Thesis Project**

- **781** MDes Thesis Advising 6.00
  - 25614 PD LAB 001 ARR ARR Tharp
  - 25615 PD LAB 002 ARR ARR Marshall
  - 25616 PD LAB 003 ARR ARR Marshall
  - 25617 PD LAB 004 ARR ARR Tobier
  - 25618 PD LAB 005 ARR ARR Bennett

**MDes Thesis Project**

- **783** MDes Thesis Project 3.00
  - 25810 P LAB 001 F 9-12PM ARR Graf

**Interarts Performance (INTPERF)**

- **160** INTPERF Forum 1.00
  - 21287 P RW SEM 001 M 530-630PM 2062 A&AB Manos