## Architecture & Urban Planning

### College of Architecture & Urban Planning

#### Architecture (ARCH) Open Sections

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| 32664 | P REC 003 F 9-10AM            | 2520 NUB| 9 Y     |         |            |    |
| 32665 | P REC 004 F 10-11AM           | 1028 DANA| 8 Y     |         |            |    |
| 32662 | A LEC 001 TH 9-10AM           | 1449 MH| Trandafirescu |         |            |    |

| 300   | **Tutorial Stds Arch**        | 1.00-3.00 | ADVISORY |         | 24 N       |    |
| 322   | **Arch Desn II**              | 6.00 | ADVISORY | 100.00 |         |    |
| 10277 | P R LAB 001 TH 1-5PM          | 3100 A&AB| Maigret |         | 112 N      |    |

| 323   | **History Arch II**           | 3.00 | ADVISORY |         | 84 N       |    |
| 10282 | P DIS 002 F 930-1030AM        | 2210 A&AB| Rogers, Norwood | 4 N |         |    |
| 10283 | P DIS 003 F 830-930AM         | 2210 A&AB| Cohen, Norwood  | 3 N |         |    |
| 10284 | P DIS 004 F 930-1030AM        | 2213 A&AB| Friese, Norwood | 3 N |         |    |
| 17957 | P DIS 005 F 830-930AM         | 2213 A&AB| Miller, Norwood | 3 N |         |    |

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

| 10281 | A LEC 001 TH 9-10AM           | 2104 A&AB| Norwood |         |            |    |

| 324   | **Structures II**             | 3.00 | ADVISORY |         | 103 N      |    |
| 10286 | P R REC 002 W 930-1030AM       | 2210 A&AB| von Buelow |         |            |    |

Please note students will be placed in a recitation section. Please do not schedule any courses between 10:00am and noon.

| 10285 | A LEC 001 TH 930-1030AM        | 2104 A&AB| von Buelow |         |            |    |

Recitation sessions are 1 hour blocks. Instructor will assign sections at the beginning of the term. Please do not schedule courses between 10:00am and Noon on Wednesdays.

| 326   | **Design Fundmnt II**         | 3.00 | ADVISORY |         | 84 N       |    |
| 10291 | P R LAB 001 TH 1-2PM          | 1030-1130AM| 2213 A&AB|         |            |    |

| 325   | **Fabrication/Represen**      | 3.00 | ADVISORY |         | 50.00      |    |
| 24405 | P R LAB 001 TH 3-4PM          | 2104 A&AB| McCullough | 54 N |         |    |

| 409   | **Special Topics Arch**       | 3.00 | ADVISORY, ENFORCED |         | 54 N       |    |
| 27538 | P R LEC 001 TH 230-530PM      | 2210 A&AB| Harris | 4 Y |         |    |
| 24322 | P R LEC 002 M 6-9PM           | 2108 A&AB| Nanda | 2 Y |         |    |
| 30064 | P R LEC 004 TTH 1130-1PM      | 210 TAP| Leon   | 2 Y |         |    |

**Urban Fragments: The Americas**

| 422   | **Arch Design II**            | 6.00 | ADVISORY, ENFORCED | 100.00 |          |    |
| 16206 | P R LAB 001 TH 1-5PM          | 3100 A&AB| Aguirre, Moran, Jacobs | 19 N |         |    |

**Int U P&Env**

| 423   | **Fabrication/Represen**      | 3.00 | ADVISORY |         | 20.00      |    |
| 10296 | P DIS 002 TH 12-1PM           | 1220 WEILL| Dobie | 4 Y |         |    |
| 10297 | P DIS 003 F 12-1PM            | 1024 DANA| Friedman | 1 Y |         |    |
| 10298 | P DIS 004 F 12-1PM            | 2024 DANA| Hunter | 1 Y |         |    |
| 10295 | S LEC 001 TTH 9-10AM          | 1040 DANA| D’Anieri |         |            |    |

**Environmental Sys**

| 425   | **Environmental Sys**         | 3.00 | ADVISORY |         | 50.00      |    |
| 24280 | P R LEC 001 TH 830-1130AM     | 2104 A&AB| Kim, Urban | 11 N |         |    |

Undergraduate Section

| 25138 | P R LEC 002 T 830-1130AM      | 2104 A&AB| Junghans, Kim | 18 N |         |    |

**Robotics**

| 431   | **Robotics**                  | 3.00 | ENFORCED |         | 1 Y        |    |

**Arch Des IV**

| 442   | **Arch Des IV**               | 6.00 | ADVISORY | 100.00 |          |    |
| 10299 | P R LAB 001 TH 1-5PM          | 3100 A&AB| Roddier | 115 N |         |    |

| 506   | **Spec Topics Des Fund**      | 3.00 | ADVISORY |         | 16 Y       |    |
| 34159 | P SEM 002 TH 830-1130AM       | 2204 A&AB| Groat | 16 Y |         |    |

Participatory Tools Arch&UP

| 20731 | P SEM 005 W 830-12PM          | 2222 A&AB| Strickland | 11 Y |         |    |

**Urbanism in Film**

| 507   | **Spec Topics Constr**        | 3.00 | ADVISORY |         |            |    |
| 22416 | P LEC 001 MW 1130-1PM         | 1028 DANA| Reames, Karthikeyan | 1 Y |         |    |

**Advanced Construction Methods**

| 20627 | P SEM 002 F 830-1130AM        | 2204 A&AB| Graeber | 8 Y |         |    |

**Experimental Course**

| 20629 | P SEM 002 F 830-1130AM        | 2204 A&AB| Rule | 10 Y |         |    |
| 1.00-3.00 | ADVISORY | 10 Y |         |    |
| 1.00-3.00 | ADVISORY | 10 Y |         |    |

**Spatial Narratives**

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Urban Design (UD) Open Sections

Urban and Regional Planning (URP) Open Sections

Planning Detroit

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Engaging Detroit:Max Solutions

One-credit workshop will happen 1/31-2/1 and 2/14-2/15. Visit Taubman College Course List for more details.

Urban Environmental Systems
# Dental Hygiene

## Dental Hygiene-Dentistry

### Dental Hygiene (DENTHYG) Open Sections

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## Dentistry

### School Of Dentistry

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This course is held concurrent with RESTORA 871 in room 2397.

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### Education

--MOST SCHOOL OF EDUCATION COURSES ARE LISTED UNDER EDUCATION. SOME ADDITIONAL COURSES ARE LISTED UNDER EDUCATION C AND D.

--UNDERGRADUATE STUDENTS MUST HAVE ATTAINED JUNIOR STANDING COMPLETION OF AT LEAST 54 SEMESTER HOURS OR MUST BE SCHOOL OF EDUCATION SPECIAL STUDENTS BEFORE THEY MAY ELECT 300 OR 400 LEVEL COURSES

--TEACHER CERTIFICATION COURSES: ENROLLMENT PREFERENCE WILL BE GIVEN TO STUDENTS PREVIOUSLY ADMITTED TO AN APPROVED TEACHER CERTIFICATION PROGRAM: OTHERS MAY BE REQUIRED TO WITHDRAW.

--UNLESS OTHERWISE INDICATED, CLASS 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) Open Sections

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For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 304-006 required. Choose S/U grading option.


For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 304-008 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. Concurrent registration in EDUC 302-001 required. Choose letter graded option.

For Secondary Winter ENGLISH students only. Concurrent registration in EDUC 302-002 required. Choose letter graded option.


For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 302-004 required. Choose letter graded option.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 302-005 required. Choose letter graded option.

For Secondary Winter WORLD LANGUAGES students only. Concurrent registration in EDUC 302-007 required. Choose letter graded option.

For Secondary Winter WORLD LANGUAGES students only. Concurrent registration in EDUC 302-008 required. Choose letter graded option.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 302-009 required. Choose letter graded option.

For Secondary Winter SOCIAL STUDIES students only. Concurrent registration in EDUC 302-010 required. Choose letter graded option.

First year Elem students only (Cohort 1.)

First Year Elem students only (Cohort 2.)

Sec SOCIAL STUDIES Winter Cohort students. Field work on Th/F mornings. Students must attend Practicum Orientation.

Sec MATH and SCIENCE Winter Cohort students only. Field work on Th/F mornings. Students must attend Practicum Orientation.
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U of M Open Classes Only Schedule of Classes
Page 18 of 343

WN 2020 2270 03-27-2020 01:03 22523928
For ES MA students in LPAC. Class will be held on 1/21, 2/4, 2/18, 3/17, 4/14, 4/21, 4/28.

For ES MA PEIR students.

639 Tpoc Ed Resrch Prac
31758 P SEM 001 M 1-4PM 2340 SEB Freeman
Divers, Inclusion, Just&Equity
Open to MA and PhD students.

640 Ind Study Ed Study
31474 P REC 001 M 1-4PM 4212 SEB Bain
Crosslisted with History 681.

644 Compar&Internatl Ed
28645 P REC 001 TH 1-4PM 2334 SEB Bellino
Secondary MAC ENGLISH students only. Concurrent registration in EDUC 654-001 required. Choose S/U grading option. This is a "Y" course.

651 Directed Teach Elem
25450 P R LAB 001 MTWTHF 8-5PM ARR Klingelhofer
Secondary MAC ENGLISH students only. Concurrent registration in EDUC 654-001 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25451 P R LAB 002 MTWTHF 8-5PM ARR Coultas
Secondary MAC ENGLISH students only. Concurrent registration in EDUC 654-002 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25452 P R LAB 003 MTWTHF 8-5PM ARR Madden
Secondary MAC MATH students only. Concurrent registration in EDUC 654-002 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25453 P R LAB 004 MTWTHF 8-5PM ARR Kademian
Secondary MAC SCIENCE students only. Concurrent registration in EDUC 654-003 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25454 P R LAB 005 MTWTHF 8-5PM ARR Robertson
Secondary MAC SOCIAL STUDIES students only. Concurrent registration in EDUC 654-004 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25455 P R LAB 006 MTWTHF 8-5PM ARR Jabulani
Secondary MAC SOCIAL STUDIES students only. Concurrent registration in EDUC 654-004 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25456 P R LAB 007 MTWTHF 8-5PM ARR Honold
Secondary MAC SOCIAL STUDIES students only. Concurrent registration in EDUC 654-005 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25457 P R LAB 008 MTWTHF 8-5PM ARR McDermott
Secondary MAC SOCIAL STUDIES students only. Concurrent registration in EDUC 654-005 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25458 P R LAB 009 MTWTHF 8-5PM ARR Cornish, Coolican, Hoops,
Crowley, Carduner
Secondary MAC WORLD LANGUAGES students only. Concurrent registration in EDUC 654-007 required. Choose S/U grading option. This is a "Y" course.

652 Directed Tchg Sec
25459 P R LAB 010 MTWTHF 8-5PM ARR Kaneda
Secondary MAC WORLD LANGUAGES students only. Concurrent registration in EDUC 654-007 required. Choose S/U grading option. This is a "Y" course.
Secondary MAC ENGLISH students enrolled in ESL program. Concurrent registration in EDUC 654-011 required. Choose S/U grading option. This is a "Y" course.

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.

Secondary MAC WORLD LANGUAGES students enrolled in ESL only. Concurrent registration in EDUC 654-013 required. Choose letter graded option. This is a "Y" course.

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.

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 652-003 required. Choose letter graded option. This is a "Y" course.

Secondary MAC SOCIAL STUDIES students only. Meets with EDUC 304-005, 304-006 & 654-006. 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.

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Secondary MAC SOCIAL STUDIES students only. Meets with EDUC 304-005, EDUC 304-006 & 654-005. Concurrent registration in EDUC 652-012 required. Choose letter graded option. This is a "Y" course.

Choose letter graded option. This is a "Y" course.

Secondary MAC WORLD LANGUAGES students enrolled in ESL program. Concurrent registration in EDUC 652-013 required. Choose letter graded option. This is a "Y" course.

Choose letter graded option. This is a "Y" course.
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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### Engineering

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

#### Aerospace Engineering

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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).
Climate and Space Sciences Engineering

Climate and Meteorology (CLIMATE) Open Sections

102 Extreme Weather 3.00
   17388 P  LEC 001 MWF 10-11AM AUD C AH Samson 100 N

172 Climate & Sustain
   16181 P  LAB 003 T 11-1PM 2302 SEB Amaboldi, Halperin 2 Y

280 Ugrad Res Experience
   17509 P  LAB 001 ARR ARR Gilchrist, Slavin 45 N
   17510 PL LAB 002 ARR ARR Gregerman 45 N

321 Earth System Dynam
   17391 P  LEC 001 TTH 12-130PM 2246 CSRB Jablonowski 48 N

323 Earth Sys Analysis
   17833 P  LEC 001 MWF 1030-1230PM 134 NAME Payne 2 N

280 Ugrad Res Experience
   22116 P  LAB 002 ARR ARR Ridley 25 N

350 Atm Thermo
   18641 S  LAB 002 F 1030-1230PM 2230 CSRB Payne 25 N

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.

26922 P  LEC 002 MW 3-5PM 2238 CSRB Liemohn 4 Y

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.

411 Cloud & Precip Process
   28466 P  LEC 001 MWF 130-230PM 134 NAME Adams-Corraliza 8 N

414 Weather Systems
   18244 P  LEC 001 MWF 1230-130PM 2238 CSRB Marsik 11 N

431 Wireless Link
   17111 P  LAB 001 F 1030-1230PM 3341 EECS Wu 7 Y
   17110 A  LAB 001 TTH 1030-12PM 3433 EECS Budhu, Gilchrist 25 N

480 Climate Change
   22185 P  LEC 001 TTH 10-1130AM 1024 DANA Rood 2 Y
   499 Directed Study
      I  IND + ARR ARR 1.00-16.00 25 N

501 Climate, Atmos & Sp Sci
   24307 P  SEM 001 T 12-1PM 2422 CSRB Slavin 15 N

Planetary Magnetospheres JC
   37941 P  SEM 002 M 12-1PM 2424 CSRB Moldwin 24 N

352 Radiative Tran
   18245 P  LEC 001 TTH 130-330PM 2238 CSRB Landi 4.00 ADVISORY 2 N

565 Planet Sci
   24951 P  LEC 001 MT 930-1130AM 2424 CSRB Atreya 5 N

567 Chemical Dynamics
   32300 P  LEC 100 MWF 11-12PM 1372 EH Kubarych 10 N

586 Adv Data Analysis
   28469 P  LEC 001 MF 3-5PM 2424 CSRB Huang 14 N

588 Region Scale Climate
   31520 P  LEC 001 TTH 1130-130PM 2238 CSRB Steiner 17 N

592 Climate Practicum II
   21014 P  LEC 001 MW 3-5PM 2236 CSRB Rood 11 N

690 Thesis/ M.S.
   701 Special Problems
      I  IND + ARR ARR 1.00-16.00 25 N

747 Student Seminar

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# Civil & Environmental Engineering (CEE) Open Sections

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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.

## Deployable & Reconfig Strut
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 (scissors mechanisms), origami structures, and bi/multi-stable units. Conceptual topics will include deployment kinematics, stability, geometric constraints, mechanical behaviors, energy formulations, and matrix analysis of the systems. 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.
Dynamc Cntrl Connected Vehicle

27233 P SEM 850 TH 230-4PM ARR Yin 2 Y

Next Gen Transpo Sys Seminar

Next Generation Transportation Systems Seminar --- Presentation and discussion of selected topics related to transportation systems engineering. Student participation and guest lectures.

Conference room 2029 G.G. Brown

509 Theory Elast
28664 P LEC 001 TTH 9-1030AM 1045 GGBL Bucsek 3.00 ADVISORY 8 Y

512 Nonlinear Structs
21744 P LEC 001 TTH 1-230PM 2147 GGBL El-Tawil 3.00 ADVISORY 35 Y

522 Sediment Transport
33775 P R LEC 001 TTH 1130-1PM 1025 GGBL MacVean 3.00 ADVISORY 13 Y

526 Des Hydraulic Syst
13643 P LEC 001 TTH 10-1130AM 185 EWRE Ivanov 3.00 ADVISORY 27 Y

530 Constr Prof Prac
10630 P LEC 001 T 5-8PM 2153 GGBL Lee 3.00 ADVISORY 42 Y

533 Engr Proc Mod & Risk
33764 P LEC 001 TTH 230-4PM 1045 GGBL Ioannou 3.00 ADVISORY 15 Y

546 Slope Dam Ret Struc
34622 P R LEC 001 TTH 830-10AM 2153 GGBL Michalowski 3.00 ADVISORY 46 Y

552 Travel Analysis&Fest
29421 P LEC 001 TTH 10-1130AM 1025 GGBL Misra 3.00 ADVISORY 20 Y

554 Data Mining in Trans
33766 P R LEC 001 TTH 1-230PM 2153 GGBL Masoud 3.00 ADVISORY 47 Y

563 Air Qual Engr Fund
23361 P LEC 001 MW 1030-12PM 1045 GGBL Clack 3.00 ADVISORY 1 Y

567 Energy Infrastr Sys
27728 P LEC 001 TTH 1130-1PM 165 CHRYS Lastoskie 3.00 ADVISORY 38 Y

571 Linear Systems Thry
22600 P DIS 011 TH 530-630PM 1500 EECS Gupta 4.00 ADVISORY 40 Y

574 Matl Sel Sus Des
33765 P LEC 001 TTH 1130-1PM 2153 GGBL Li 3.00 ADVISORY 22 Y

580 Physicochem Process
19878 P LEC 001 TTH 1-230PM 104 EWRE Olson 3.00 ADVISORY 28 Y

581 Aquatic Chemistry
10631 P R L 001 MW 9-1030AM 1200 EECS Hayes, Zhang 3.00 ADVISORY, ENFORCED 14 Y

CEE 581 - both lecture and lab - should be taken by students intending to use the class for graduate credit, including SUGS students.

CEE 481 lecture should be taken by undergraduate students with no intention of counting this class towards a graduate program. No graduate credit will be granted for CEE 481.

19897 A R LAB 002 F 9-1030AM 2517 GGBL Hayes, Zhang

19897 AR LAB 002 F 9-1030AM 2517 GGBL Hayes, Zhang

3.00 ADVISORY

11 Y

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### CoE Robotics Institute

#### Robotics (ROB) Open Sections

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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.

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, 542, 545, 551, 560 (CEE 571), 564, 567; IOE 511 (Math 542), 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 535)

2. MATLAB

### Mobile Robotics

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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.

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Bioinspiration

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## Design Science Program

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- **502 Des Proc Models**: Meeting in Chrysler classroom 151.
- **590 Directed Design Res**: Class will meet in SI-North on North Campus; 3rd floor conference room; Room 3244.
- **791 Design Science Sem**: Class will meet in Chrysler classroom 151.
## EER-Engineering Education Research

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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.

Students must elect lab and lecture sections.

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

Students must elect discussion and lecture sections.

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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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U of M Open Classes Only Schedule of Classes  Page 37 of 343  WN 2020 2270 03-27-2020 01:03 22523928
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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.

| 24068 | S R | LEC 001 | TTH | 130-3PM | 220 CHRY | Kloosterman |
| 30695 | S R | LEC 003 | TTH | 6-730PM | 1013 DOW | Almoman |

490 Prog Lang

| 33426 | P R | DIS 011 | F | 1030-1130AM | 1024 FXB | Potter |
| 33427 | P R | DIS 012 | F | 130-230PM | 107 GFL | Brooks |
| 33425 | P R | DIS 013 | F | 930-1030AM | 104 EWRE | Moon |

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.

| 30694 | S R | LEC 002 | TTH | 6-730PM | 2505 GGBL | Gouravajhala, Krosnick |

492 Intro Art Intell

| 33424 | A R | LEC 001 | MW | 430-6PM | 1571 GGBL | Omar, Matute |

493 User Interface Dev

| 27458 | P R | DIS 012 | TH | 6-7PM | 1010 DOW | Wu |

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.

| 27456 | S R | LEC 001 | TTH | 430-6PM | 2505 GGBL | Guzdial, Krosnick |

494 Comp Game Design

| 16132 | P R | DIS 011 | F | 230-430PM | STAMPS | Fu, Bolton, Zhang |

497 Human-Centered SW

| 31820 | P R | LEC 002 | MW | 1230-230PM | 107 GFL | Yarger, Williams, Badami |

STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Course will open to EE UG and ECE Grad who meet course prerequisites on Tuesday, December 10, 2019.

| 30694 | S R | LEC 001 | TTH | 1030-12PM | 2505 GGBL | Gouravajhala, Krosnick |

498 Special Topics

| 31820 | P R | LEC 002 | MW | 3-5PM | 2505 GGBL | Kuipers, Atkins, Duffy |

Ethics for AI and Robotics

*4 CREDITS for Lec 001*, Prerequisites for LEC 001: EECS 367 or EECS 467 or EECS 492 or EECS 442 or EECS 445 or permission of instructor

| 33424 | A R | LEC 001 | MW | 3-5PM | 2505 GGBL | Kuipers, Atkins, Duffy |

499 Adv Directed Study

| 23413 | P R | LAB 041 | F | 2-4PM | 1012 EECS | Starck |

Software Defined Radio

*4 CREDIT HOURS for Lec 004 and Lab 041 or Lab 042*, Prerequisite for Lec 004 and Lab 041 or 042: Permission of Instructor. STUDENTS ARE AUTO-ENROLLED IN LECTURE 004 WHEN THEY ELECT A LAB 041 or 042.

| 22707 | P R | LEC 002 | ARR | 2-4PM | ARR | Bhat |

500 Stoch Processes

| 30356 | P L | LEC 002 | ARR | ARR | Madhavasya, Kapritsos |

Advanced OS Projects

*2 CREDITS for Lec 002*, Prerequisites for Lec 002: EECS 281, EECS 370, and concurrent enrollment in EECS 482.

| 23413 | P R | LAB 041 | F | 10-12PM | ARR | Bhat |

Software Defined Radio

*4 Credit Hours for Lec 004 and Lab 041 or Lab 042*, Prerequisite for Lec 004 and Lab 041 or 042: Permission of Instructor. STUDENTS ARE AUTO-ENROLLED IN LECTURE 004 WHEN THEY ELECT A LAB 041 or 042.

| 22707 | P R | LEC 002 | ARR | 130-230PM | 2153 GGBL | Starck |

Software Defined Radio

*4 CREDITS for Sec 004 and Lab 041 or 042*, Prerequisites for Lec 004: Grad Standing and Permission of Instructor

| 34512 | P L | LEC 006 | T | 3-6PM | 1012 EECS | Mazumder |

Design of Quantum Computers

*3 CREDITS for Sec 006*, Prerequisites for LEC 006: None

| 499 Adv Directed Study | R IND | 1.00-4.00 | ADVISORY, ENFORCED | 25 |

501 Pbr&Rand Proc

| 18287 | P R | DIS 011 | F | 130-3PM | 1311 EECS | Seyedabbaszadehesfahlani |
| 21442 | P R | DIS 012 | F | 130-12PM | 1311 EECS | Zhang |

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

| 18286 | A R | LEC 001 | MW | 130-3PM | 133 CHRY | Pradhan |

502 Stoch Processes

| 30356 | P L | LEC 002 | ARR | ARR | Madhavasya, Kapritsos |

Advanced OS Projects

*2 CREDITS for Lec 002*, Prerequisites for Lec 002: EECS 281, EECS 370, and concurrent enrollment in EECS 482.

| 23413 | P R | LAB 041 | F | 10-12PM | ARR | Bhat |

Software Defined Radio

*4 Credit Hours for Lec 004 and Lab 041 or Lab 042*, Prerequisite for Lec 004 and Lab 041 or 042: Permission of Instructor. STUDENTS ARE AUTO-ENROLLED IN LECTURE 004 WHEN THEY ELECT A LAB 041 or 042.

| 22707 | P R | LEC 002 | ARR | 130-230PM | 2153 GGBL | Starck |

Software Defined Radio

*4 CREDITS for Sec 004 and Lab 041 or 042*, Prerequisites for Lec 004: Grad Standing and Permission of Instructor

| 34512 | P L | LEC 006 | T | 3-6PM | 1012 EECS | Mazumder |

Design of Quantum Computers

*3 CREDITS for Sec 006*, Prerequisites for LEC 006: None

| 499 Adv Directed Study | R IND | 1.00-4.00 | ADVISORY, ENFORCED | 25 |

501 Pbr&Rand Proc

| 18287 | P R | DIS 011 | F | 130-3PM | 1311 EECS | Seyedabbaszadehesfahlani |
| 21442 | P R | DIS 012 | F | 130-12PM | 1311 EECS | Zhang |

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

| 18286 | A R | LEC 001 | MW | 130-3PM | 133 CHRY | Pradhan |

502 Stoch Processes

| 30356 | P L | LEC 002 | ARR | ARR | Madhavasya, Kapritsos |

Advanced OS Projects

*2 CREDITS for Lec 002*, Prerequisites for Lec 002: EECS 281, EECS 370, and concurrent enrollment in EECS 482.

| 23413 | P R | LAB 041 | F | 10-12PM | ARR | Bhat |

Software Defined Radio

*4 Credit Hours for Lec 004 and Lab 041 or Lab 042*, Prerequisite for Lec 004 and Lab 041 or 042: Permission of Instructor. STUDENTS ARE AUTO-ENROLLED IN LECTURE 004 WHEN THEY ELECT A LAB 041 or 042.

| 22707 | P R | LEC 002 | ARR | 130-230PM | 2153 GGBL | Starck |

Software Defined Radio

*4 CREDITS for Sec 004 and Lab 041 or 042*, Prerequisites for Lec 004: Grad Standing and Permission of Instructor

| 34512 | P L | LEC 006 | T | 3-6PM | 1012 EECS | Mazumder |

Design of Quantum Computers

*3 CREDITS for Sec 006*, Prerequisites for LEC 006: None

| 499 Adv Directed Study | R IND | 1.00-4.00 | ADVISORY, ENFORCED | 25 |

501 Pbr&Rand Proc

| 18287 | P R | DIS 011 | F | 130-3PM | 1311 EECS | Seyedabbaszadehesfahlani |
| 21442 | P R | DIS 012 | F | 130-12PM | 1311 EECS | Zhang |

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

| 18286 | A R | LEC 001 | MW | 130-3PM | 133 CHRY | Pradhan |

502 Stoch Processes

| 30356 | P L | LEC 002 | ARR | ARR | Madhavasya, Kapritsos |

Advanced OS Projects

*2 CREDITS for Lec 002*, Prerequisites for Lec 002: EECS 281, EECS 370, and concurrent enrollment in EECS 482.
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.

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); MECHENG 564, 567 (ROB 510) (MFG 567), 663, 552 (MFG 552); ROB 501, 550 are strongly recommended; NAVARCH 500, 565 (ROB 535)
2. MATLAB

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/
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# Engineering Undergraduate Education

## Engineering (ENGR) Open Sections

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STUDENTS ELECTING DIS (402-408) WILL BE AUTO-ENROLLED IN LEC 400 AND THE CORRESPONDING LAB. Ex. elect Dis 402, auto-enrolled in Lab 401.

18840 | P R LEC 400 | MW | 8-9:30AM | 133 CHRYS | Ku, Zahn | 3 | N |

Self Driving Cars & Drones:

18841 | A R LAB 401 | F | 8-10AM | 108 GFL | Manwiller |
| 18843 | A R LAB 403 | F | 1030-1230PM | 108 GFL | Peterson |
| 19855 | A R LAB 405 | T | 130-330PM | 108 GFL | Manwiller |

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 |

Underwater Vehicle Design:

21721 | P DIS 112 | T | 1130-1230PM | 1025 GGBL | 2 | N |

STUDENTS ELECTING DIS (112-116) WILL BE AUTO-ENROLLED IN LEC 110 AND THE CORRESPONDING LAB. Ex. elect Dis 112, auto-enrolled in Lab 111.

21719 | A LEC 110 | TTH | 130-3PM | 1005 DOW | Sevener, Montgomery |

Engineering Composites:

29497 | A R DIS 156 | T | 1030-1130AM | 3433 EECS | Sulewski |
| 29494 | A LEC 150 | MW | 12-130PM | 1010 DOW | Cotel, Sulewski |

A River Runs Through It:

17768 | P R LEC 250 | MW | 3-430PM | 1017 DOW | Chen, Hildinger |

STUDENTS ELECTING DIS (152-156) WILL BE AUTO-ENROLLED IN LEC 150 AND THE CORRESPONDING LAB. Ex. elect Dis 152, auto-enrolled in Lab 151.

24946 | A R LAB 255 | F | 1230-230PM | 1045 GGBL | Snyder |
| 24113 | AD LEC 350 | TH | 1030-12PM | 1005 DOW | Albayrak Guralp, Snyder |

Engr Biological Systems:

31459 | P DIS 422 | F | 930-1030AM | 136 EWRE | Bowden |
31458 | A LEC 420 | MW | 1030-12PM | 133 CHRYS | Zhong, Bowden |

Solar Energy & Wireless Systems:

31460 | A R LAB 421 | M | 1230-230PM | 108 GFL | Novilla |
| 19867 | A R DIS 454 | F | 10-11AM | 3427 EECS | Grimble |

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 | ADR LEC 450 | TTH | 12-130PM | 1012 FXB | De Roo, Grimble |

Green Engr-Harness the Wind:

19860 | ADR LAB 453 | F | 11-1PM | ARR | Albayrak Guralp, Garrido |

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.

17760 | P R LAB 562 | W | 130-230PM | 185 EWRE | Himsel-Burcon |
| 17762 | P R LAB 564 | W | 230-330PM | 1032 FXB | Himsel-Burcon |

STUDENTS ELECTING DIS (562-564) WILL BE AUTO-ENROLLED IN LEC 560 AND THE CORRESPONDING LAB. Ex. elect Dis 562, auto-enrolled in Lab 561.

21730 | AD LEC 560 | MW | 1030-12PM | 1010 DOW | Chen, Himsel-Burcon |

Manufacturing and Society:

21731 | AD LAB 561 | TH | 1030-1230PM | ARR | Li |

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 |

Electron & Atmos Space Measure:

20299 | P R LAB 951 | T | 4-5PM | 3427 EECS | Ascrizzi, Wagner, Johari |

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.

U of M Open Classes Only Schedule of Classes | Page 44 of 343 | WN 2020 2270 03-27-2020 01:03 22523928
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U of M Open Classes Only Schedule of Classes | Page 45 of 343 | WN 2020 2270 03-27-2020 01:03 22523928
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U of M Open Classes Only Schedule of Classes  Page 46 of 343  WN 2020 2270 03-27-2020 01:03 22523928
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U of M Open Classes Only Schedule of Classes
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**Entrepreneurship (ENTR) Open Sections**

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* 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).

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E-Commerce Entrepreneurship

24591 P LEC 011 T 6-8PM ARR Narayan 8 Y

* 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).

24758 PI LEC 013 T 4-6PM 1690 BEYSTER Wingfield, Moore 16 N

TechLab MCity

***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

**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

**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).

407 Entrepreneurship Hr

19899 P SEM 001 F 1230-130PM ARR Fay 104 Y

* 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

408 Patent Law

22550 P R LEC 001 T 6-8PM ARR Fidler 11 Y

* 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

409 Intr Venture Capital

19898 P LEC 001 THF 10-12PM ARR Fortino 10 Y

***** 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).

* 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

410 Finding Your Venture

25269 P LEC 001 TH 3-5PM ARR Hayden, McFall 4 Y

* 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

411 Entr Practicum

22561 P R LEC 003 W 6-8PM 110 WEISER-TBL McNaughton 5 Y

Entreprenurship Practicum

* 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

412 Adv Entr Practicum

25171 P I LEC 001 T 6-8PM A859 CHEM-TBLC Hennessy 14 Y

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

* More information about this and other ENTR courses can be found at cfe.umich.edu/courses

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TechnoLab MCity

3596 Spec Topics Entr 1.00-3.00

560 Project Mgmt Consulting 3.00

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Tech Commercialization

2500 Creative Process 4.00

Innov for Impact: Climate Chang

2500 Creative Process 4.00

Reimagining Companies

2500 Creative Process 4.00

Entrepreneurial Leadership

University Arts (UARTS) Open Sections

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).**

**University Arts (UARTS) Open Sections**

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.

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ENROLLMENT IN LAB SECTION AUTO-ENROLLS STUDENTS IN LECTURE

590 Spec Topics in UARTS
25971 PI LEC 001 T 9-12PM ARR Fure, Albert 3.00
The Force of Things
This section is A Transdisciplinary Exploration of Architecture and Sound, and will meet on N. campus; location TBD

20 N
# Industrial - Operations Engr Dep

## Industrial And Operations Engineering (IOE) Open Sections

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# Integrative Systems and Design

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**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).**

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**Surface and Interfacial Engineering**

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, fog harvesting and ice-shedding.

**Cancer Bioengineering**

Cancer Bioengineering - Cancer refers to a collection of heterogeneous but related diseases recognized primarily by uncontrolled cell 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

**Materials Science Engineering (MATSCIE) Open Sections**

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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
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 Matls Design & Genomics
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.
Mechanical Engineering (MECHENG) Open Sections

211  Intro to Solid Mech  4.00  ENFORCED  
16099  P R DIS 011  W  1130-1230PM  2166 DOW  Rosario  
MUST ENROLL IN ONE LECTURE "AND" ONE DISCUSSION OF MECHENG 211. 
MUST ENROLL IN ONE LECTURE "AND" ONE DISCUSSION OF MECHENG 211. 
22184  S R LEC 002  MWF  2:30-3:30PM  2505 GGBL  Estrada  
MUST ENROLL IN ONE LECTURE "AND" ONE DISCUSSION OF MECHENG 211. 

235  Thermodynamics I  3.00  ENFORCED  
16928  P R LEC 001  TTH  1:230PM  1500 EECs  Pipe  
16929  P R LEC 002  TTH  2:30-4:30PM  2505 GGBL  Wooldridge  
26994  P R LEC 003  TTH  3:30-5:30PM  3433 EECs  Kwabi  

240  Dynamics & Vibrations  4.00  ENFORCED  
10796  P R LEC 002  MWF  1030-12PM  1500 EECs  Tol  
10800  PIR LAB 004  MWF  1130-1230PM  1540 GGBL  Mark  
10803  PIR LAB 007  MW  230-330PM  1540 GGBL  Zhu  
12152  PIR LAB 008  MW  330-430PM  1540 GGBL  Umbrici, Zhu  
12153  PIR LAB 009  MW  430-530PM  1540 GGBL  Burke  

250  Des & Mfg I  4.00  ENFORCED  
16928  P R LEC 001  TTH  1:230PM  1500 EECs  Pipe  
16929  P R LEC 002  TTH  2:30-4:30PM  2505 GGBL  Wooldridge  
28661  P R LEC 003  TTH  9:1030AM  1012 FXB  Violi  

269  RISE 2  1.00-3.00  IND +  
10806  A R LEC 001  TTH  3:430PM  1610 IOE  Umbrici, Awtar  

320  Fluid Mech I  3.00  ENFORCED  
16961  P R LEC 002  MW  12-130PM  1017 DOW  Towne  

335  Heat Transfer  3.00  ADVISORY  
18624  P R LEC 002  TTH  11-1230PM  2505 GGBL  Kurabayashi  

336  Thermodynamics II  3.00  ADVISORY  
28661  P R LEC 001  TTH  9:1030AM  1012 FXB  Umbrici, Awtar  

350  Des & Mfg II  4.00  ENFORCED  
20330  PIR LAB 002  F  830-1030AM  1345 GGBL  Awtar, Huang  

382  Mech Behav Matls  4.00  ENFORCED  
10810  P R LEC 001  MWF  9-1030AM  1008 FXB  Thouless  

395  Lab I  4.00  ENFORCED  
10811  A R LEC 001  MF  130-3PM  220 CHRYS  Grosh, Liang  

400  Mech Engr Analysis  3.00  ADVISORY  
28668  P R LEC 001  MW  9-1030AM  1032 FXB  Schultz  

401  Stat Quality Control  3.00  ADVISORY  
24104  P LEC 001  MW  3-430PM  2150 DOW  Ni  

412  Adv Strength Matls  3.00  ADVISORY  
32070  P LEC 001  MW  9-1030AM  1025 GGBL  Barber  

420  Fluid Mechanics II  3.00  ADVISORY  
26986  P LEC 001  MW  3-430PM  104 EWRE  Akhavan  

433  Adv Energy Solutions  4.00  ADVISORY  
26971  PIR LEC 001  TTH  1030-12PM  1303 EECs  Dasgupta  
10812  PIR LEC 002  TTH  230-403PM  2150 DOW  Perkins  

450  Des & Mfg III  4.00  ENFORCED  
10819  P R DIS 002  TTH  230-403PM  2150 DOW  Sienko  

461  Automatic Control  3.00  ADVISORY  
31742  P LEC 001  TTH  9-1030AM  1303 EECs  Barton  
476  Biofluid Mechanics  4.00  ADVISORY  
16137  P LEC 001  MW  430-630PM  2505 GGBL  Grotnberg  
481  Mfg Processes  3.00  ADVISORY  
33712  PIR LEC 001  MW  9-1030AM  1005 DOW  Shih  

490  RISE 4  3.00  
10820  P R DIS 005  TTH  230-403PM  2153 GGBL  Kaviani  

495  Lab I  4.00  ENFORCED  
19208  P R LAB 010  T  830-1130AM  2541 GGBL  Pillai  
Prerequisites are enforced; must be met to enroll in this class.

U of M Open Classes Only Schedule of Classes  Page 63  of  343  WN 2020 2270 03-27-2020 01:03 22523928
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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, 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
   31061 PI LEC 881 MW 5-7PM ARR Ghaffari Jadidi 24 N

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

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2. MATLAB
   570 Adv Marine Design 4.00 ADVISORY
   10850 P LEC 001 TTH 11-1PM 138 NAME Collette 10 N
   Class will meet in 236 NAME (Rosenblatt Room)
   590 Directed Study&Res 1.00-6.00 ADVISORY 25 N
   592 Masters Thesis 1.00-6.00 ADVISORY 25 N
   990 Diss-Precand 1.00-8.00 ADVISORY 25 N
   995 Diss-Cand 8.00 ENFORCED

U of M Open Classes Only Schedule of Classes Page 65 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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# Nuclear Engineering And Radiological Sciences (NERS) Open Sections

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## Laboratory Sessions

Lab will be in 1958 Cooley:

- **Lab 1**: 10870 P LAB 003 T 1-4PM ARR McBride, Yang 2 Y
- **Lab 2**: 27660 P LAB 004 W 1-4PM ARR McBride, Yang 3 Y
- **Lab 3**: 28083 P LAB 005 F 1-4PM ARR McBride, Yang 1 Y
- **Lab 4**: 579 Phys Diagnos Radiol 3.00 ADVISORY West, Kearfott 19 N
- **Lab 5**: 581 Rad Therapy Physics 3.00 ENFORCED Matuszak, Hadley 19 N
- **Lab 6**: 586 Appl Rad Mearsrnt 4.00 ADVISORY Kearfott, Noey 1 Y

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).
Space Nuclear Power & Propulsion

This course focuses on the design of low-noise analog circuits for the readout of signals from radiation sensors. 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.

Fundamentals of Nuclear Electr

High Energy Density Physics

Machine Learning for Science

Masters Project

Ion Beam Mod

Eltrn-Coher Rad

Eltrn-Coher Rad

Special Project

Diss-Precand

Diss-Cand

588  Rad Safe & Md Phy Prac  1.00-12.00  ADVISORY  25  N
590  Special Topics II  2.00-3.00  ADVISORY  5  N
28193  P  LEC 001  TTH  9-1030AM  2918 COOL  Foster  7  N
32368  P  LEC 002  F  1-3PM  2918 COOL  De Geronimo  16  N
33832  P  LEC 003  MW  1230-230PM  2918 COOL  Kuranz  7  N
34121  P  LEC 004  TTH  1-230PM  3150 DOW  Duraisamy  48  Y
599  Masters Project  1.00-3.00  ADVISORY  25  N
622  Ion Beam Mod  3.00  ADVISORY  18  N
673  Eltrn-Coher Rad  3.00  ADVISORY  28  N
673  Eltrn-Coher Rad  3.00  ADVISORY  28  N
799  Special Project  1.00-6.00  ADVISORY  22  N
990  Diss-Precand  1.00-8.00  ADVISORY  25  N
995  Diss-Cand  8.00  ENFORCED  25  N
Technical Communication
Technical Communication (TCHNCLCM) Open Sections

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.

<table>
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| 300  | Tech Comm for EE&CE | 1.00 | | |
| 17819 | P LEC 001 W | 130-230PM | 1003 EECS | Lewis | 1 Y |
| 25534 | P LEC 013 M | 1230-130PM | 104 EWRE | Pavlov | 2 Y |
| 17822 | P LEC 002 M | 930-1030AM | 1005 EECS | Pavlov | 7 Y |
| 21382 | P LEC 005 M | 230-330PM | 107 GFL | Royston | 1 Y |
| 22490 | P LEC 010 F | 1030-1130AM | 2147 GGBL | McCaffery | 1 Y |
| 22492 | P LEC 012 M | 930-1030AM | 185 EWRE | Snyder, Hildinger | 4 Y |
| 30035 | P LEC 015 T | 130-230PM | 1024 FXB | Hildinger | 5 Y |

| 380  | Tech Comm in IOE | | ADVISORY | |
| 22035 | P R LEC 004 TTH | 930-1030AM | 1003 EECS | Lind | 1 Y |

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 | |
| 22496 | P R LEC 007 MW | 1130-1230PM | 104 EWRE | Kumpf | 1 Y |

| 497  | Adv Tch Com for CS | 2.00 | ENFORCED | |
| 26238 | P R LEC 005 TTH | 1030-1130AM | 3427 EECS | Hogg Jr | 4 Y |
| 27910 | P R LEC 007 TTH | 1130-1230PM | 107 GFL | Sheffield | 3 Y |
| 22499 | P R LEC 002 MW | 930-1030AM | 1003 EECS | Hogg Jr | 4 Y |
| 27924 | P R LEC 006 MW | 230-330PM | 1014 DOW | Montgomery | 1 Y |
| 30302 | P R LEC 009 MW | 930-1030AM | 1008 EECS | Alfano | 5 Y |
| 34200 | P R LEC 015 TTH | 230-330PM | 2166 DOW | Vigiletti | 1 Y |

| 499  | Scientific&Tech Comm | | | |
| 22496 | P R LEC 007 MW | 1130-1230PM | 104 EWRE | Kumpf | 1 Y |

| 575  | Directed Study | | ADVISORY | |
| 22496 | P R LEC 007 MW | 1130-1230PM | 104 EWRE | Kumpf | 1 Y |

| 610  | Dissertatin Writing | | | |
| 10879 | P SEM 001 TH | 330-430PM | 107 GFL | | 1 N |

| 610  | Dissertatin Writing | | | |
| 10879 | P SEM 001 T | 330-530PM | 2238 CSRB | Himsel-Burcon | 1 N |

FOR STUDENTS WHO HAVE NEVER TAKEN THIS CLASS.
## Environment and Sustainability
### Program in the Environment
#### Environment (ENVIRON) Open Sections

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

#### Intro Geology Lab

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

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To enroll in the Intro Geology Lab, enroll in any section of EARTH/ENVIRON 119 and 118.

#### Earth Chemistry

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#### Bus & the Environment

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This class is closed to seniors until December 10.

#### Intr Environ Science

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This class is closed to seniors until December 10.

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 233.

#### Intro Ocean Lab

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This course represents the ENVIRON 111 Study Abroad Extension in Italy. The dates of this course are July 3 - 24, 2020.
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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 problemsolving@umich.edu.
# Information

## School of Information

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### Notes

- ATTN BSI Students: SI 260 is a lower-level elective course and will not count toward the 45-credit SI degree requirements.
- 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.
- Only UMSI students may register for this section. Non-UMSI students should register either for an open seat or for the waitlist for the SI 360 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 SI 460 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 SI 460 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 SI 460 section.
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- Only Non-UMSI students may register for this section. UMSI students should register either for an open seat or for the waitlist for the SI 460 section.

Contact Survey Methodology for permission to enroll: michpsm.isr@umich.edu
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Students are required to attend class for three hours a week.

Meets in 2245 NQ.

This section is for UMSI students only.

This section is for non-UMSI students.

It is CRITICAL that students attend class 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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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 UMSI students may register for this section. Non-UMSI students should register either for an open seat or for the waitlist for the 010 section.

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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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For more information, please visit the U of M Open Classes Only Schedule of Classes online.
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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) Open Sections**

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**Athletic Training (AT) Open Sections**

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### Health and Fitness (HF) Open Sections

**Kinesiology (KINESLGY) Open Sections**

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**Movement Science (MOVESCI) Open Sections**

**110 Bio&Beh Bases Hu Mvt**

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

**230 Hum Musculo Anat**

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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.

**231 Hum Musculo Anat Lab**

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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.

**240 Intro to Fit&Health**

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MOVESCI 240 is not open to enrollment, but is crosslisted as AES 240, which is open to enrollment / waitlisting.

**280 Kin UG Research Opp**

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**413 Special Topics MVS**

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<th>CODE</th>
<th>CMP</th>
<th>SEC</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>OPEN SEATS</th>
<th>WL</th>
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<td>005</td>
<td>F</td>
<td>12-3PM</td>
<td>3040 CCRB</td>
<td>Umberger</td>
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Computer Modeling & 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
A series of lectures, readings, and hands-on assignments. It is recommended for students to have completed MOVESCI 330 before taking this course.

**Surg Neuroanat & Periop Injury**

Advisory Prereq: It is STRONGLY recommended for students to have completed MOVESCI 320 before enrolling in this course. Students who have already taken MOVESCI 361 should not enroll in this course.

**Physical Education (PHYSED) Open Sections**

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, sidestroke, and butterfly. And you'll learn jumping in, treading, and water safety. Goal: one length of the pool. Goggles recommended. Attendance in at least one of the first two classes is mandatory for evaluation or you may lose your spot in class to those on a waitlist. No enrollments are accepted after the class meets a third time.

141 **Begin Swim II**

1.00

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. Beginning Swim II is for students who are already comfortable in the water and who can swim across the pool (the short way). The course works on building endurance and improving technique in
freestyle, backstroke, elementary backstroke, breaststroke, sidestroke, butterfly, diving and treading water as well as water safety. Flip turns and other activities will be offered as skills advance. 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.

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. Beginning Swim II is for students who are already comfortable in the water and who can swim across the pool (the short way). The course works on building endurance and improving technique in freestyle, backstroke, elementary backstroke, breaststroke, sidestroke, butterfly, diving and treading water as well as water safety. Flip turns and other activities will be offered as skills advance. 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.

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.

Sport Management (SM) Open Sections

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

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) Open Sections

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**Photography and Incarceration**

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<tr>
<td>22238</td>
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<td>B513 EQ</td>
<td>Millman</td>
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#### Core Courses (RCCORE) Open Sections

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#### Humanities (RCHUMS) Open Sections

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**Natural Sciences (RCNSCI) Open Sections**

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Literature, Sci, and the Arts

NOTE--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 ENGLISH COURSE;
---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) Open Sections

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#### Literature Survey

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### Anthropology Biological (ANTHRBIO) Open Sections

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#### 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.

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#### U of M Open Classes Only Schedule of Classes Page 102 of 343 WN 2020 2270 03-27-2020 01:03 22523928
Anthropology, Cultural (ANTHRCUL) Open Sections

101 Intro to Anthro 4.00
- 10914 P DIS 003 M 2-3PM 418 WH Solano Del Castillo 1 N
- 10916 P DIS 005 T 9-10AM 238A WH Han 4 N
- 10917 P DIS 006 F 12-1PM 238A WH Solano Del Castillo 1 N
- 10919 P DIS 008 W 3-4PM 238A WH Baci 1 N

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.

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.

272 Lang in Soc 3.00
- 10925 P DIS 027 M 10-11AM 238A WH Contreras 4 N
- 10926 P DIS 028 M 11-12PM 238A WH Contreras 1 N
- 10928 P DIS 030 M 2-3PM 238A WH Mulvey 5 N
- 10935 P DIS 037 T 9-10AM 238A WH Everhart 5 N
- 10936 P DIS 038 W 10-11AM 238A WH Bernard 12 N
- 10937 P DIS 039 W 11-12PM 238A WH Bernard 12 N
- 10922 P DIS 013 W 2-3PM 238A WH Han 10 N
- 10923 P DIS 014 M 4-5PM 049 UMMA Baci 12 N
- 10913 A LEC 001 MWF 11-12PM AUD 3 MLB Chivens

STUDENTS ARE AUTO-ENROLLED IN LEC 001 WHEN THEY ELECT A DIS 027-044. DIS SECTIONS DO NOT MEET UNTIL AFTER THE FIRST WEEK OF CLASSES.

222 Intro Hist Anthro 3.00
- 17008 PI LEC 001 MW 1-230PM 210 WH Frye 2 N

STUDENTS ARE AUTO-ENROLLED IN LEC 001 WHEN THEY ELECT A DIS 027-044. DIS SECTIONS DO NOT MEET UNTIL AFTER THE FIRST WEEK OF CLASSES.

357 Ug Soc Sociocul Anth 3.00
- 25079 PI SEM 001 TTH 1130-1PM 3207 LSA Kirsch 5 Y

Welcome to the Anthropocene

417 Spirit Ethno SEAsia 3.00
- 33507 P LEC 001 TTH 10-11AM 210 WH Rubin 1 Y

Ethnographic Data Analysis Lab

458 Anthropology Topics 3.00
- 10946 P SEM 001 T 1-4PM 418 WH Roberts 10 Y

Violence and Politics of Past

471 Face-to-Face Interac 3.00
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# Applied Physics Program

## Applied Physics (APPPHYS) Open Sections

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### Asian Languages And Cultures

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*Hyecho's Journey* is offered by University of Minnesota Professor Travis Workman (tworkman@umn.edu).

"Cold War Cultures in Korea" is offered by University of Minnesota Professor Travis Workman (tworkman@umn.edu).
This course is offered to U-M students through the Korean Studies e-School coordinated by the Nam Center for Korean Studies.

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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.

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**Buddhist Studies (BUDDHST) Open Sections**
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**Astronomy Department**

Astronomy (ASTRO) Open Sections

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Biology Department

Biology (BIOLOGY) Open Sections

--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 MCDB (MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY).

107 Evolution of Life 3.00 ADVISORY
28718 PI LEC 001 MWF 3-4PM 1060 BSB-TBL Carpenter 4 Y

117 The Science of Study 1.00 ADVISORY
34233 P R SEM 001 F 12-2PM 2244 USB Carpenter 34 Y

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 (3/9/2020-4/21/2020).

118 AIDS 3.00
32178 PI LEC 001 TTH 830-10AM ARR Bender 328 Y

120 First Year Sem Biol 3.00 ADVISORY
20609 PIR SEM 001 TTH 230-4PM 3265 USB Kondrashov 4 Y

Implications of Evol Biol 1.00-3.00
32216 PI LEC 001 TTH 230-4PM 1505 NUB Klionsky 5 Y

Supermarket Biology
33760 PI LEC 002 F 2-3PM 1400 CHEM Schmidt, Gdanetz MacCready 22 Y

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
18826 DI DIS 006 T 230-4PM 2234 USB Iliff 4 Y
18814 DI DIS 007 T 830-10AM 2234 USB Orth 1 Y
22196 DI DIS 008 W 830-10AM 2234 USB Nicholas 2 Y
18949 DI DIS 009 M 830-10AM 4152 USB Shayka 3 Y
18815 DI DIS 010 T 830-10AM 4152 USB Medina 1 Y
18818 DI DIS 013 T 10-1130AM 2234 USB Orth 1 Y
18819 DI DIS 014 W 10-1130AM 2234 USB Iliff 4 Y
18950 DI DIS 015 M 10-1130AM 4152 USB Shayka 3 Y
18951 DI DIS 016 T 10-1130AM 3230 USB Oliphant 1 Y
18820 DI DIS 017 W 10-1130AM 4152 USB Mims 2 Y
18823 DI DIS 020 T 1-230PM 2234 USB Iliff 1 Y
18953 DI DIS 023 W 1130-1PM 2062 PALM Nicholas 2 Y
18827 DI DIS 024 M 230-4PM 4152 USB Mims 1 Y
18956 DI DIS 026 M 4-530PM 2234 USB Nicholas 3 Y
18828 DI DIS 027 T 4-530PM 2234 USB Baki, Grudzien 5 Y
18829 DI DIS 028 M 4-530PM 4152 USB Shayka 1 Y
18957 DI DIS 034 M 4-530PM 3230 USB Medina 5 Y
18834 DI DIS 027 M 10-1130AM 3427 MH Orth 2 Y

--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
18946 SI LEC 003 MW 230-4PM AUD A AH Kurdziel

--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.

34243 AI MID 099 W 6-830PM ARR
A MID 099 W 6-830PM ARR
A MID 099 W 6-830PM ARR

18813 PIR DIS 200 M 830-10AM 2234 USB Eidietis 6 Y

--HONORS STUDENTS ENROLL IN SECTION 200 OR 201 AND LECTURE SECTION 002 OR 004.
18948 PIR DIS 201 M 10-1130AM 2234 USB Eidietis 6 Y

--HONORS STUDENTS ENROLL IN SECTION 200 OR 201 AND LECTURE SECTION 002 OR 004.
18834 PIR DIS 027 M 10-1130AM 3427 MH Orth 2 Y

--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.

18947 SI LEC 004 MW 230-4PM 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.

6-8PM on Wed. open for exams.

34244 AI MID 299 W 6-830PM ARR
A MID 299 W 6-830PM ARR

34245 AI MID 299 W 6-830PM ARR
A MID 299 W 6-830PM ARR
A MID 299 W 6-830PM ARR
A MID 299 W 6-830PM ARR

U of M Open Classes Only Schedule of Classes Page 112 of 343 WN 2020 2270 03-27-2020 01:03 22523928
--THE FIRST LECTURE WILL BE HELD WEDNESDAY, JAN. 8.  --DISCUSSION SECTIONS BEGIN THE WEEK OF JAN. 13.  --EXAMS WILL BE GIVEN ON MONDAYS, Feb 3, Feb 24, and Mar 30, 6-8 PM.

SECTION 200 IS RESERVED FOR HONORS STUDENTS.

--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.  --EXAMS WILL BE GIVEN ON MONDAYS, Feb 3, Feb 24, and Mar 30, 6-8 PM.

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

MICROBIOME Authentic Research Connection section. Enrollment by application only. Please visit https://sites.lsa.umich.edu/arc

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.

E Vol 2020 2270 03-27-2020 01:03 22523928
REQUIRES 1-2 HOURS OF TIME OUTSIDE OF CLASS PER WEEK IN WHICH STUDENTS WILL COME TO THE LAB AND COMPLETE EXPERIMENTS.

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.

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.

LAB SECTIONS BEGIN THE WEEK OF JANUARY 13.

Biostatistics
The Friday 2:30pm 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/

U of M Open Classes Only Schedule of Classes Page 114 of 343 WN 2020 2270 03-27-2020 01:03 22523928
EXAMS WILL BE GIVEN WEDS., FEB 5, FEB 26, APRIL 1, 6-8 PM. ALTERNATE EXAMS WITH LIMITED SEATING WILL BE OFFERED ON THE SAME DATES AT 5-7 PM and 7-9 PM FOR STUDENTS WHO HAVE UNAVOIDABLE UNIVERSITY CONFLICTS. PLEASE PLAN TO BE AVAILABLE AT THESE TIMES. IF YOU CANNOT ATTEND EXAMS AT THESE TIMES, PLEASE CONTACT THE COURSE COORDINATOR, HILARY ARCHBOLD AT hilaryar@umich.edu BEFORE CLASSES BEGIN.
## Biophysics Research Division

### Biophysics (BIOPHYS) Open Sections

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Chemistry Department

Chemistry (CHEM) Open Sections

--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.

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Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
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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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STUDENTS HAVE 2 AFTERNOON LABS PER WEEK; ONE LAB LECTURE.

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Contact ChemicalBiology@umich.edu for registration inquiries.
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# Classical Studies Department

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U of M Open Classes Only Schedule of Classes

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WN 2020 2270 03-27-2020 01:03 22523928
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Communication and Media

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Capstone reserved for declared Communication Studies seniors only.
Music & Mediation in the West
Section reserved for Communication Studies Honors students only. Permission of instructor required.

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

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### Comparative Literature Program

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U of M Open Classes Only Schedule of Classes  Page 126 of 343  WN 2020 2270 03-27-2020 01:03 22523928
# Program Study of Complex Systems

Complex Systems (CMPLXSYS) Open Sections

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## Comprehensive Studies Program

### Comprehensive Studies Program (CSP) Open Sections

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English Language Institute

English Language Institute (ELI) Open Sections

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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PLEASE NOTE: This is an online course. Students start online then attend one required in-person class session.

Contact the instructor <a href="mailto:pbogart@umich.edu">Pamela Bogart</a> with any questions.

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U of M Open Classes Only Schedule of Classes Page 129 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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ELI 994 is a 10-week course. The first class for all sections meets Friday, January 24, 2020.
---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 MATCHES THE COURSES THEY ARE ATTENDING.

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Interested students should add themselves to the course waitlist and then send an unofficial transcript and writing sample of no more than 15 double-spaced pp (pdf or word document) to Professor Hinken at hinkenm@umich.edu. To receive priority consideration, students should submit these materials by 5pm on December 6. After this deadline, acceptance to the course will be on a case-by-case basis until the course is full.
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<td>990</td>
<td>Diss-Precand</td>
<td>American Poetry &amp; Citizen Poet</td>
<td>1.00-8.00</td>
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<tr>
<td>993</td>
<td>G S I Training</td>
<td>Sound Studies &amp; Lit Studies</td>
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<td>26117</td>
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### Earth and Environmental Sciences

**Earth and Environmental Sciences (EARTH) Open Sections**

<table>
<thead>
<tr>
<th>Course Title</th>
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<tr>
<td>100 Coral Reefs</td>
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<tr>
<td>32281 PI LEC 001 TTH 9-10AM AUD A AH Arnaboldi</td>
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| 104 Ice Ages-Past&Future               | 1.00 |        |         |
| 33882 P LEC 001 TTH 2-3PM 1800 CHEM Robbins | 302 | Y      |

| 106 Earth & Movies Mini                | 1.00 | ADVISORY |         |
| 28781 PI LEC 002 TTH 12-1PM ARR Arnaboldi | 40 | Y      |

| 110 Evolving Oceans                    | 1.00 |        |         |
| 22269 PI LEC 001 TTH 12-1PM 1800 CHEM Arnaboldi | 130 | Y      |

| 114 Global Warming                     | 1.00 | ADVISORY |         |
| 23968 P LEC 001 TTH 3-4PM 1800 CHEM Gleason | 76 | Y      |

| 118 Intro Geology                       | 1.00 | ADVISORY |         |
| 11411 P LAB 001 M 2-4PM 2512 NUB         | 8 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |
| 11412 P LAB 002 M 4-6PM 2512 NUB         | 13 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |
| 17513 P LAB 003 M 9-11AM 2512 NUB        | 12 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |
| 14283 P LAB 004 W 9-11AM 2512 NUB        | 7 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |
| 16718 P LAB 005 TH 12-2PM 2512 NUB       | 14 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |
| 19314 P LAB 006 TH 2-4PM 2512 NUB        | 14 | Y      |
| Students who register for EARTH 118 must also be enrolled in EARTH 119. |

| 119 Intro Geology                       | 4.00 | ADVISORY |         |
| 11414 P DIS 010 M 3-4PM 2504 NUB        | 6 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |
| 11415 P DIS 011 TH 3-4PM 2504 NUB       | 9 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |
| 11416 P DIS 012 M 4-5PM 2504 NUB       | 11 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |
| 11417 P DIS 013 T 12-1PM 2504 NUB      | 12 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |
| 11418 P DIS 014 F 10-11AM 2504 NUB    | 7 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |
| 11419 A LEC 001 MWF 11-12PM ARR Simon | 12 | Y      |
| To enroll in the Intro Geology Lab, enroll in any section of EARTH 118. Students are strongly encouraged to enroll in both EARTH 119 and 118. |

| 120 Geol National Parks                | 4.00 |        |         |
| 33932 PI LAB 006 F 9-11AM 2512 NUB     | 4 | Y      |

| 122 Extreme Weather                    | 3.00 | ADVISORY |         |
| 17392 P LEC 001 MWF 10-11AM AUD C AH Samson | 100 | N      |

| 130 Phys World                         | 4.00 | ADVISORY |         |
| 32318 PI REC 002 W 1-2PM 2512 NUB      | 3 | Y      |
| 32319 PI REC 003 M 12-1PM 2512 NUB     | 3 | Y      |
| 32317 AI LEC 001 TTH 1130-1PM 2520 NUB Spica | 33 | N      |

| 131 Earth Chemistry                    | 4.00 |        |         |
| 32327 PI DIS 002 TH 1-2PM 2516 NUB     | 1 | Y      |
| 32328 PI DIS 003 W 9-10AM 2516 NUB     | 5 | Y      |
| 32338 PI DIS 004 M 5-6PM 2516 NUB      | 4 | N      |
| 32329 AI LEC 001 TTH 10-1130AM 2520 NUB Robbins | 3 | N      |

| 142 From Stars - Stones                | 3.00 | ADVISORY |         |
| 25029 P R SEM 001 TTH 4-530PM 3540 NUB Zhang | 8 | Y      |
| First Year Seminar. ONLY first year undergraduates may register. |

| 172 Climate & Sustain                  | 4.00 |        |         |
| 16794 P LAB 003 T 11-1PM 2302 SEB Arnaboldi, Halperin | 2 | Y      |

<p>| 205 Earth:Dyn Planet                   | 2.00 |        |         |
| 21580 P LEC 001 TTH 4-5PM 1528 NUB Ruff   | 56 | Y      |</p>
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<tr>
<td>Students who register for EARTH 219 must also be enrolled in EARTH 218.</td>
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<td>Intr Environ Science</td>
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<td>Intro Oceanog</td>
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<td>To enroll in the Intro Oceanography Lab, enroll in any section of EARTH 223 Students are strongly encouraged to enroll in both EARTH 222 and 223 in the same term.</td>
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<td>Intro Ocean Lab</td>
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<td>This class is closed to seniors until December 10. Students who register for EARTH 223 must also be enrolled in EARTH 222.</td>
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<td>Earth Sys Analysis</td>
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<td>Envr Geochem</td>
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<td>Appl Mineral</td>
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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.

### Fld Std-Strat&Paleo
Geology of SW US
Field trip class for Spring trip. Destination TBD. Contact Prof. Lohmann for details.

### Stratigraphy & Basin
Stratigraphy & Basin

### Geol Sci Honors
Geol Sci Honors

### Research Methods NS
Research Methods NS

### Topics Earth Env Sci
Topics Earth Env Sci

### Morphometrics
Morphometrics

### Research Spec Work
Research Spec Work

### Tectonophysics
Tectonophysics

### Sem Geochem
Sem Geochem

### Thermody & Kinetics
Thermody & Kinetics

### Aquatic Chemistry
Aquatic Chemistry

### Topics Earth Env Sci
Topics Earth Env Sci

### Independent Study
Independent Study

### Diss-Cand
Diss-Cand
## Ecology & Evolutionary Biology
### Ecology and Evolutionary Biology (EEB) Open Sections

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

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Acad & Prof Writing in STEM

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

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

**Economics (ECON) Open Sections**

<table>
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<tr>
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<td>11230</td>
<td>P DIS 104</td>
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<td>142 LORCH</td>
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<tr>
<td>11228</td>
<td>A LEC 100</td>
<td>MW</td>
<td>10-1130AM</td>
<td>140 LORCH</td>
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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.

| 34295 | A MID 199 | M | 8-10PM | ARR |
| 11236 | P DIS 201 | T | 830-10AM | 373 LORCH | Elayan Balague | 26 | N |
| 11237 | P DIS 202 | T | 10-1130AM | 373 LORCH | Venyige | 1 | N |
| 11241 | P DIS 206 | T | 230-4PM | 142 LORCH | Teng | 1 | N |
| 11242 | P DIS 207 | T | 4-530PM | 173 LORCH | Teng | 12 | N |
| 11243 | P DIS 208 | M | 4-530PM | 173 LORCH | Kulczycki | 17 | N |
| 11245 | P DIS 209 | M | 4-530PM | 373 LORCH | Yu | 26 | N |
| 11244 | P DIS 210 | M | 230-4PM | 373 LORCH | Yu | 9 | N |
| 11246 | P DIS 211 | M | 230-4PM | 142 LORCH | Wang | 16 | N |
| 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.

| 34296 | A MID 299 | W | 6-8PM | ARR |
| 34298 | A MID 599 | W | 8-10PM | ARR |
| 34300 | A MID 299 | W | 8-10PM | ARR |

| 102 | Principles Econ II | 4.00 | ADVISORY | |
| 11285 | P DIS 109 | F | 1130-1PM | 142 LORCH | Rao | 1 | Y |
| 11283 | A LEC 100 | TH | 230-4PM | 140 LORCH | Cho | |

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.

| 34299 | A MID 199 | W | 6-8PM | ARR |
| 34300 | A MID 299 | W | 6-8PM | ARR |
| 34300 | A MID 599 | T | 8-10PM | ARR |
| 34300 | A MID 599 | T | 8-10PM | ARR |

| 108 | Intro Micro Wkshp | 1.00 | ADVISORY, ENFORCED | |
| 20278 | PIR SEM 001 | F | 9-10AM | 142 LORCH | Proulx | 3 | Y |

Personal Finance

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.

| 208 | Inter Micro Workshop | 1.00 | ADVISORY | |
| 25148 | P SEM 001 | F | 1-230PM | 140 LORCH | Dudley | 46 | Y |

Economics at Work

| 251 | Intro Stats&Metric II | 4.00 | ENFORCED | |
| 25150 | P R DIS 204 | F | 10-11AM | 1084 EH | Foschi | 1 | Y |
| 21060 | A R LEC 200 | MW | 1130-1PM | 1360 EH | Asenova | |

Students will be auto-enrolled in section 200 when they elect sections 201-204.

| 258 | Topics Data Analysis | 3.00 | ENFORCED | |
| 32564 | P R LEC 001 | TTH | 830-10AM | 1570 NUB | Hasanbasri | 9 | Y |
| 310 | Money & Banking | 3.00 | ADVISORY, ENFORCED | |
| 32054 | P R LEC 001 | TTH | 830-10AM | 140 LORCH | Oudek | 3 | Y |
| 325 | Econ of Education | 3.00 | ADVISORY, ENFORCED | |
| 32055 | P R LEC 001 | MW | 1-230PM | 120 WH | Stevenson | 1 | Y |
| 327 | Economics Of Crime | 4.00 | ADVISORY, ENFORCED | |
| 32600 | P R DIS 003 | F | 11-12PM | 1084 EH | Martin | 1 | Y |
| 32565 | P R LEC 001 | MW | 10-1130AM | 1401 MH | Heller | 1 | Y |
| 340 | International Econ | 4.00 | ADVISORY, ENFORCED | |
| 32507 | P R LEC 001 | MW | 830-10AM | 1400 CHEM | Bartelme | 11 | Y |
| 395 | Topics in Microecon Matching & Market Design | 1.50 | ADVISORY, ENFORCED | |
| 18304 | P R LEC 001 | MW | 4-530PM | 1528 NUB | Peralta | 15 | Y |

| 401 | Intermed Micro Thry | 4.00 | ADVISORY, ENFORCED | |
| 11278 | P R DIS 002 | F | 10-1130AM | 271 WEISER | Zamzow | 1 | Y |
| 11279 | P R DIS 003 | TH | 830-10AM | 271 WEISER | Radler | 2 | Y |
| 11282 | P R DIS 008 | TH | 830-10AM | 142 LORCH | Onyshchenko | 2 | Y |
| 28968 | P R DIS 017 | TH | 530-7PM | 1505 NUB | Hsieh | 9 | Y |
| 28969 | P R DIS 018 | TH | 530-7PM | 1372 EH | Karol | 7 | Y |
Students will be auto-enrolled in section 001 when they elect sections 002-010. Evening Midterm Exams will be held on the following dates: 2/13 & 3/19 from 8-10pm.

If you will be unable to attend any of the exams, please consider restructuring your schedule or drop the course as the exams are mandatory.
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.
### LSA II: European Studies

**European Studies (EURO) Open Sections**

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### Exhibit Museum

**Museum Methods (MUSMETH) Open Sections**

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*U of M Open Classes Only Schedule of Classes Page 144 of 343 WN 2020 2270 03-27-2020 01:03 22523928*
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Germanic Languages & Lit Dept

Dutch (DUTCH) Open Sections

112 2nd Spec Speak&Read
11220 P REC 001 MTWTH 10-11AM B116 MLB Vicca 4.00 ADVISORY
11221 P REC 001 MTWTH 10-11AM 2330 MH Toebosch 4.00 ADVISORY
512 2nd Spec Speak&Read
11223 P REC 001 MTWTH 10-11AM B116 MLB Vicca 4.00 ADVISORY
532 Second Year Dutch
11224 P REC 001 MTWTH 10-11AM 2330 MH Toebosch 4.00 ADVISORY

German (GERMAN) Open Sections

100 Intensive Elem Ger
21737 P DIS 002 MTTHF 1-2PM 1512 EQ Goertz 8.00
21736 A REC 001 MTTHF 11-12PM 1511 EQ Hegman Shier 4.00 ADVISORY
101 Elementary
11429 PI REC 001 MTWTH 10-11AM B118 MLB Keener 4.00 ADVISORY
20562 P REC 002 MTWTH 9-10AM B118 MLB Keener 4.00 ADVISORY
11430 PI REC 003 MTWTH 12-1PM 2104 MLB Rastalsky 4.00 ADVISORY
11431 PI REC 004 MTWTH 1-2PM 2112 MLB Measel 4.00 ADVISORY
19391 PI REC 005 TTH 7-9PM 2106 MLB Tahir 4.00 ADVISORY
23355 PI REC 006 MTWTH 4-5PM 2106 MLB Measel 4.00 ADVISORY

112 2nd Spec Read
17882 PI REC 001 TWTHF 9-10AM 3310 MLB Dabak 4.00 ADVISORY
128 1st Year Yiddish II
29719 P REC 001 TTH 230-330PM 4000 STB 4.00 ADVISORY
29717 P REC 001 F 1-3PM 4000 STB 4.00 ADVISORY
228 2nd Year Yiddish II
11432 PI REC 001 TWTHF 10-11AM 1033 DENT Gell 1.00 ADVISORY
17949 PI REC 002 TWTHF 12-1PM 2202 MLB Marquardt 1.00 ADVISORY
20806 PI REC 004 TWTHF 9-10AM 2135 NQ Gell 1.00 ADVISORY
11434 PI REC 002 MTWTH 4-5PM 2412 MLB Grzeskowiak 1.00 ADVISORY

128 1st Year Yiddish II
P REC 001 TTH 9-10AM 3310 MLB Dabak 4.00 ADVISORY
29719 P REC 001 F 1-3PM 4000 STB 4.00 ADVISORY
210 German Pronunciation
37742 P REC 002 W 5-7PM 2412 MLB Grzeskowiak 1.00 ADVISORY

228 2nd Year Yiddish II
29719 P REC 001 TH 1-230PM 2108 MLB 4.00 ADVISORY
228 2nd Year Yiddish II
P REC 001 T 1-230PM 2108 MLB 4.00 ADVISORY
P REC 001 M 1030-1130AM 3000 STB 4.00 ADVISORY
231 Second-Year
11432 PI REC 001 TWTHF 10-11AM 1033 DENT Gell 3.00 ADVISORY
17949 PI REC 002 TWTHF 12-1PM 2202 MLB Marquardt 3.00 ADVISORY
20806 PI REC 004 TWTHF 9-10AM 2135 NQ Gell 3.00 ADVISORY

232 Second-Year
11434 PI REC 002 MTWTH 4-5PM 2412 MLB Grzeskowiak 1.00 ADVISORY

234 German Grammar
29551 PI REC 001 F 12-1PM 2104 MLB 1.00 ADVISORY

300 Towards Flucency
16583 PI REC 001 MTWTH 12-1PM 2112 MLB 4.00 ADVISORY

303 Ger Cult & Arts
32367 P SEM 002 MWF 9-10AM G115 AH Uritescu-Lombard 3.00
33969 P SEM 003 MW 1-230PM 1469 MH Toman 3.00
This course will take place every other Wednesday, starting on 1/8/20.

306 Conversation
11438 PI REC 001 F 2-3PM 3304 MLB 1.00 ADVISORY

312 Geographic Immersion
17867 PI SEM 001 W 3-5PM B134 MLB Dischler 1.00-2.00 ADVISORY

322 Origins Of Nazism
22946 P R DIS 002 TH 1-2PM 1469 MH Kaul 4.00
22948 P DIS 004 TH 2-3PM 3401 MH Kaul 4.00
22950 P DIS 006 F 10-11AM 3333 MH Duranceau-Lapointe 4.00
22951 P DIS 007 F 11-12PM 1339 MH Duranceau-Lapointe 4.00
25728 P DIS 009 F 12-1PM 1469 MH Mukherjee 4.00
22945 A LEC 001 TTH 1130-1PM AUB B AH Eley 3.00

326 Intern German
11439 PI REC 001 MWF 10-11AM 2114 MLB Rodena-Krasan 3.00 ADVISORY

U of M Open Classes Only Schedule of Classes Page 147 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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History Department

History (HISTORY) Open Sections

--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.

--100 THRU 500 LEVEL 4 CREDIT HOUR COURSES ARE 4 CREDIT HOURS FOR UNDERGRADUATES ONLY.

--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.

### Course Listings

#### 102 History of Present

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*The first class meeting on Wednesday, January 6 will meet in 1713 Haven Hall.*

*The first class meeting on Wednesday, January 6 will meet in 2773 Haven Hall.*

*NEW CLASS TIME: This class is being changed to M 1-4 pm.*

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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) Open Sections

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

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#### Experiential Study

| 299 | P | LEC 001 | MW | 1130-1PM | 180 TAP | Barham | 3.00 |

#### Reason/Passion 18thC

| 342 | P | LEC 001 | MW | 1-230PM | 049 UMA | Willette | 3.00 |

#### Medieval Arch

| 345 | P | LEC 001 | TH | 1130-1PM | 180 TAP | Timmermann | 3.00 |

#### Michelangelo

| 351 | P | SEM 001 | TTH | 4-530PM | 049 UMA | Willette | 3.00 |

#### MiraculousDiabolical

| 355 | P | LEC 001 | TH | 1-230PM | 180 TAP | Holmes | 3.00 |

#### Destruction of Art

| 358 | P | SEM 001 | TTH | 4-530PM | 210 TAP | Holmes | 1 Y |

#### RealismImpressionism

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#### Weimar Culture

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Institute For The Humanities (INSTHUM) Open Sections
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College of Literature, Science, and the Arts

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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.
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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 Susmeha Baidya (e-mail: sbaidya@umich.edu).
On the weekend of January 24-26, Rising Peer Facilitators will attend a mandatory overnight retreat at an off-campus location.

**CAT# Course Title CR PREREQ LAB FEE OPEN SEATS WL**

| Friday, February 21 | |
| Friday, March 13 | |
| Friday, March 27 | |
| Friday, April 3 | |

For information, please go to the following site:
https://sites.google.com/umich.edu/um-rotc/home

Students participating in Air Force ROTC need to register for the lab section. Please contact the department at 734-764-2403 with questions.

Students participating in Air Force ROTC need to register for the lab section. Please contact the department at 734-764-2403 with questions.

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This class meets in Mason Hall, Room 2336.

Central Asia Today

Palestinian Art 1945-Present

HU Topics in Islam

Islam and Russia

History of Arab Lit

Modern Middle Eastern and Islamic Studies

U of M Open Classes Only Schedule of Classes
## LSA II: Japanese Studies

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Globalization in South America

Please note this class meets from March 9, 2020 through April 21, 2020. Winter 2020: This course counts toward the Portuguese minor requirements.

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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.
# LSA II: Middle Eastern & North African Studies

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LSA II: South East Asian Studies
Southeast Asian Studies (SEAS) Open Sections
LSA II: Prog in Internat'l & Comparative Studies

International Studies (INTLSTD) Open Sections

101  Int to Intnl Studies 3.00
19881  P DIS 002 TH 4-530PM 355 WEISER Noray 2 Y
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 R DIS 003 TH 10-1130AM 455 WEISER Marcum 2 Y
Introduction to Intnl Studies
This section is reserved for Honors students only. Please note that there is no time conflict between the lecture and discussion. 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 DIS 008 F 830-10AM 355 WEISER Noray 16 Y
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 DIS 009 F 1130-1PM 455 WEISER Cannon 1 Y
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
22188  P R DIS 002 T 9-10AM 355 WEISER Johnson, Tanielian 16 Y
Human Rights: Hist & Practice
22189  P R DIS 003 W 9-10AM 355 WEISER Harrison, Tanielian 6 Y
Human Rights: Hist & Practice
22190  P R DIS 004 F 12-1PM 355 WEISER Johnson, Tanielian 11 Y
Human Rights: Hist & Practice
22192  P R DIS 006 TH 12-1PM 355 WEISER Harrison, Tanielian 1 Y
Human Rights: Hist & Practice
22272  P R DIS 007 T 3-4PM 355 WEISER Johnson, Tanielian 2 Y
Human Rights: Hist & Practice
21230  A R LEC 001 MW 1-230PM 1202 SEB Tanielian
Human Rights: Hist & Practice

385  Int Topics in SS 3.00-4.00 ADVISORY
25268  P R LEC 001 W 230-530PM 355 WEISER Tsai 3 Y
Indigenous v Global S. America
33876  P R LEC 006 MW 4-530PM 1507 EQ Lynch 9 Y
Globalization and Global India
34154  P DIS 008 TH 10-11AM 1185 NQ Castillo Dona 4 Y
National Period Latin America
34155  P DIS 009 TH 11-12PM 1185 NQ Castillo Dona 5 Y
National Period Latin America
34156  P DIS 010 TH 230-4PM 2436 MH Espinoza 3 Y
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.
34153  A LEC 007 MW 4-530PM 1202 SEB Tanielian
National Period Latin America
391  Directed Studies 1.00-4.00
1 IND +
18453  P R SEM 001 MW 10-1130AM 355 WEISER Uehling 10 N
People, Land, and Time
20354  P R SEM 002 MW 1-230PM 355 WEISER Uehling 12 Y
People, Land, and Time
33923  P R SEM 005 W 2-5PM 2407 MH Davenport 16 Y
Consequences of Contention
32417  P R SEM 006 MW 10-1130AM 5180B AH Wu 12 Y
Hist of Med, Disease & Body
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U of M Open Classes Only Schedule of Classes
**Department of Linguistics**

**Cognitive Science (COGSCI) Open Sections**

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**Lang and Human Mind**

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Mathematics Department
Mathematics (MATH) Open Sections

---MATH DEPARTMENT POLICY REQUIRE 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 MATCHES THE COURSES THEY ARE ATTENDING.
---MATH DEPARTMENT POLICY LIMITS STUDENTS TO A MAXIMUM OF 4 CREDITS FOR COURSES NUMBERED BELOW 112.

105 Data,Fcnns,Graphs 4.00
26101 PDR LEC 171 MWF 11-1PM 2353 MH Lande 1 N
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

Evening Exams TBA. Avoid scheduling classes that conflict with these times.

34199 A MID 199 T 6-8PM ARR
A MID 199 T 6-8PM ARR

115 Calculus I 4.00 ADVISORY
25310 P R LEC 176 MWF 3-5PM 3356 MH Khumbah 4 N
This is a CSP class section. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

Evening Exams TBA
Avoid scheduling classes that conflict with these times

34231 A MID 199 T 8-10PM ARR
A MID 199 T 8-10PM ARR

116 Calculus II 4.00 ADVISORY
25312 PDR LEC 172 MWF 1-3PM 1096 EH Farokhrani 1 N
This section is reserved for CSP students. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

Evening Exams TBA
Avoid scheduling classes that conflict with these times

27432 PDR LEC 173 MWF 3-5PM 1096 EH Farokhrani 4 N
This course meets in north quad

Avoid scheduling classes that conflict with these times

146 Houghton Calc Wkp II 2.00 ADVISORY, ENFORCED
18327 PDR LAB 001 MW 3-5PM 2135 NQ Conger 1 N
This course meets in north quad

147 Interest Theory 3.00 ADVISORY
11603 P LEC 001 TH 10-11AM B737 EH Guzman 1 Y
This course meets in north quad

201 Math Writing Intro 1.00 ADVISORY
33971 P LAB 001 MT 5-7PM B860 EH DeBacker 8 Y

214 App Linear Algebra 4.00 ADVISORY
26021 P R LEC 004 MTWF 8-9AM A859 CHEM-TBLC Burns Jr 1 Y

Evening Exams TBA
Avoid scheduling classes that conflict with these times.

Please note the restricted seats. For information about overrides, please contact the staff in IOE at widobber@umich.edu

29757 P R LEC 005 TTH 6-8PM 2306 MH Farre Puiggali 1 Y

Evening Exams TBA
Avoid scheduling classes that conflict with these times.

Please note the restricted seats. For information about overrides, please contact the staff in IOE at widobber@umich.edu

34236 A MID 199 W 8-10PM ARR
A MID 199 T 8-10PM ARR

215 Multiv & Vector Calc 4.00 ADVISORY
11605 P LAB 021 TH 10-11AM B737 EH Guzman 1 Y

Evening Exams TBA
Avoid scheduling classes that conflict with these times

11606 P LAB 022 TH 11-12PM B737 EH Guzman 1 Y

Evening Exams TBA
Avoid scheduling classes that conflict with these times

11607 P LAB 023 TH 3-4PM B737 EH Guzman 1 Y

Evening Exams TBA
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11604 A R LEC 020 TH 9-10AM 2260 USB Garver

Evening Exams TBA
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34205 A MID 025 TH 6-8PM ARR
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34238  A R  MID 025  W  8-10PM  ARR
11644  P R  LAB 031  T  10-11AM  B745 EH  Satpathy  1  Y
Evening Exams TBA

Avoid scheduling classes that conflict with these times
11647  P R  LAB 034  T  4-5PM  B745 EH  Satpathy  1  Y

Avoid scheduling classes that conflict with these times

11643  A R  LEC 030  MWF  10-11AM  260 WEISER  Norton
Evening Exams TBA

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11647  P R  LAB 034  T  4-5PM  B745 EH  Wakefield  1  Y

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11651  P R  LAB 043  TH  5-6PM  B745 EH  Wakefield  1  Y

Avoid scheduling classes that conflict with these times

11652  P R  LAB 044  TH  4-5PM  B743 EH  Wakefield  1  Y

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11648  A R  LEC 040  MWF  11-12PM  260 WEISER  Norton
Evening Exams TBA

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11640  A R  MID 045  W  8-10PM  ARR

21 Linear Algebra 4.00 ADVISORY

11658  P P  LEC 001  MWF  8-10PM  B735 EH  5  Y

Evening Exams TBA

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15916  P P  LEC 003  MWF  10-11AM  B737 EH  1  Y

Evening Exams TBA

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24101  P P  LEC 009  MWF  230-4PM  B735 EH  7  Y

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27695  P P  LEC 012  MWF  230-4PM  B743 EH  2  Y

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29759  P P  LEC 013  MWF  1130-1PM  B735 EH  1  Y

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29761  P P  LEC 015  MWF  830-10AM  B743 EH  5  Y

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34242  A P  MID 099  W  6-8PM  ARR
29767  A P  MID 099  W  6-8PM  ARR

289 Problem Seminar 1.00
25463  P P  SEM 001  W  4-5PM  1866 EH  Derksen  3  Y

354 Fourier Analys&Appl
25157  P P  LEC 001  MWF  10-11AM  4096 EH  Bells  10  Y

371 Num Meth Engr
11664  P P  LEC 002  TTH  12-130PM  1008 EECS  4  Y

399 Independent Reading
I IND + ARR

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30779  P P  LEC 001  TTH  1130-1PM  3448 MH  1  Y
11666  P P  LEC 002  TTH  10-1130AM  3448 MH  1  Y

416 Theory Algorithms
27602  P P  LEC 001  TTH  830-10AM  3096 EH  4  Y

419 Lin Sp Matrx Thy
21653  P P  LEC 001  TTH  830-10AM  2229 SEB  3  Y
11670  P P  LEC 002  TTH  12-130PM  1024 FBX  1  Y

425 Intro Probabil

U of M Open Classes Only Schedule of Classes  Page 182  of 343  WN 2020 2270 03-27-2020 01:03 22523928
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For waitlisted students: preference is given to Financial Math majors.

Enforced Prerequisite - Math 385 or permission of instructor.

Seats are reserved for Math Graduate students. Math undergrads and non-math grad students may add their name to the wait-list once undergraduate registration has begun.
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**Persian Language (PERSIAN) Open Sections**

**Turkish Language (TURKISH) Open Sections**

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*U of M Open Classes Only Schedule of Classes Page 188 of 343 WN 2020 2270 03-27-2020 01:03 22523928*
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) Open Sections

--FOR ADDITIONAL COURSES, PLEASE CHECK THE LISTINGS UNDER BIOLOGY AND EEB (ECOLOGY AND EVOLUTIONARY BIOLOGY).

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

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U of M Open Classes Only Schedule of Classes  Page 191  of  343  WN 2020 2270 03-27-2020 01:03 22523928
## Organizational Studies

### Organizational Studies (ORGSTUDY) Open Sections

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Students will not get credit for this course if they have previously taken, or are concurrently enrolled in, OS 205, OS 495, or Psych 487 with Arnold Ho.

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Higher Education Organizations

Students will not get credit for this course if they have previously taken, or are concurrently enrolled in OS 495, Higher Education Organizations, with Elizabeth Popp Berman.

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Organizational Culture

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Organizational Culture

This section is now open to all students.
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PHIL 289 also satisfies the prereq for PHIL 458. Contact phil-ug-coord@umich.edu to obtain override for the course.

### Philosophy, Politics and Economics (PPE) Open Sections

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Contact phil-ug-coord@umich.edu to obtain override for the course.
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## Physics Department

### Physics (PHYSICS) Open Sections

---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.

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Students should elect PHYSICS 136 as the corresponding lab.

Please make sure that your lab section does not conflict with an evening exam for another course.

Students should elect PHYSICS 141 as the corresponding LAB section.

Please make sure that your lab section does not conflict with an evening exam for another course.

This is the corresponding evening exam component for PHYSICS 135, 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.

This is the corresponding evening exam component for PHYSICS 135, 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.

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.

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.

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.
This is the corresponding evening exam component for PHYSICS 140, section 005. 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.

141 Elementary Lab I
- 11716 LAB 012 T 1-3PM 1221 RAND Perez 1 Y
- 11793 LAB 015 T 7-9PM 1221 RAND Zheng 1 Y
Please make sure that your lab section does not conflict with an evening exam for another course.

160 Honors Physics I
- 17752 LEC 001 TTH 12-1PM 182 WEISER Merlin, Day 26 Y
Students should elect PHYSICS 161 as the corresponding LAB section.

235 Phy Life Sciences II
- 20339 LEC 001 MTTHF 12-1PM 170 WEISER Eckhause 16 Y
Students should elect PHYSICS 236 as the corresponding lab.

298 Elementary Lab II
- 11735 LAB 010 T 8-10AM 1209 RAND Lee 11 Y
- 11736 LAB 011 T 10-12PM 1209 RAND McCusker 1 Y
- 11737 LAB 012 T 1-3PM 1209 RAND Zhang 2 Y
- 28242 LAB 014 T 5-7PM 1209 RAND Garcia 6 Y
Please make sure your lab does not conflict with an evening exam for another course.
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Psychology Department

Psychology (PSYCH) Open Sections

--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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All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11801 PIR DIS 036 TH 6-7PM 268 WEISER Fellowes 1 Y
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11800 PIR DIS 037 F 9-10AM 4096 EH Liu 1 Y
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

20341 PI DIS 041 F 1-2PM 3463 MH Lee 1 Y
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11796 AI LEC 030 TTH 1130-1PM AUD 4 MLB Hoefner 1 Y

Students are auto-enrolled in Lec 030 when they elect a Dis 031-042.

111 Psy as Natl Science 4.00

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All sections meet from the 1st day of class, even if they occur before the 1st lecture.

11802 PI SEM 001 W 230-530PM 170 WEISER Hicks 117 N
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

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).

200 Ind Psych Issuses 1.00-4.00 ADVISORY

211 Project Outreach 3.00 ADVISORY

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Work with Preschool Children
http://sites.lsa.umich.edu/projectoutreach/.
Email questions to project.outreach@umich.edu.

11803 P SEM 002 T 4-6PM 269 WEISER DeMarco 51 Y
Mind, Music & Community
http://sites.lsa.umich.edu/projectoutreach/.
Email questions to project.outreach@umich.edu.

11804 PI SEM 003 TH 4-6PM 296 WEISER Wells 11 Y
Juvenile and Criminal Justice
UPDATE: 1/3/2019 - 211-005 no longer requires Flu Shots.
http://sites.lsa.umich.edu/projectoutreach/.
Email questions to project.outreach@umich.edu.

11805 P SEM 004 TH 4-6PM 269 WEISER Wagner 47 Y
Health, Illness and Society
http://sites.lsa.umich.edu/projectoutreach/.
Email questions to project.outreach@umich.edu.

11806 P SEM 005 W 4-6PM 269 WEISER Smith 19 Y
Using Your Psychology Degree
UPDATE: 1/3/2019 - 211-005 no longer requires TB Test or Flu Shots.
http://sites.lsa.umich.edu/projectoutreach/.
Email questions to project.outreach@umich.edu.

220 Intro Biopsych 4.00

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Psych 220 is introduction to behavioral neuroscience for students not intending to major in BCN or Neuroscience. Psychology majors should register for Psych 220 instead of Psych 230.

223 Entrepreneur Crtvty 3.00 ENFORCED

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All sections meet from the 1st day of class, even if they occur before the 1st lecture.

U of M Open Classes Only Schedule of Classes Page 203 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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All sections meet from the 1st day of class, even if they occur before the 1st lecture.
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.

### 280 Intro Social Psych

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<td>11840</td>
<td>PIR DIS 005</td>
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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.

### 290 Intro Psych Persn

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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.

### 291 Psych Women&Gender

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<td>23130</td>
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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.

### 297 Promo Equity&Inclus

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308 Peer Advising Pract  3.00  ADVISORY
Winter 2020 application are being accepted on a rolling basis until all positions are filled. Apply online at:
https://lsa.umich.edu/psych/undergraduates/advising/peer-advising.html

Mandatory Training Tuesday 1/8/2019, 12-5pm
11809 PI LAB 001 T 3-5PM  3254 EH  Wierba  11  N
310 IGR Facilitation  3.00  ADVISORY
28946 PI SEM 001 MW  230-4PM  3160 AH  Kim  2  N
311 Dialog Pract  4.00  ADVISORY
28948 PI SEM 002 M  230-530PM  5179 AH  Hicks  12  N
321 American Addictions  4.00
28820 DIS 003 TTH  11-12PM  3293 BMA  Sakayan  2  Y
322 Fid Pract Res Nat Sci  1.00-4.00  ADVISORY
11819 PI LAB 001 ARR ARR  Hicks  24  N
323 Advanced IGR Pract  1.00-4.00  ADVISORY
28825 PI SEM 001 TH  10-1130AM  1505 NUB  Robinson  22  Y
324 Detroit Initiative  4.00  ADVISORY, ENFORCED
25422 PIR LAB 001 TTH  1130-1PM  1005 WQ  Carter  11  Y
325 Empowering Fam&Comm
326 Dir Res Psych/NS  1.00-4.00  ADVISORY
11847 P R LEC 001 TTH  10-1130AM  1505 NUB  Robinson  22  Y
336 Drugs of Abuse  3.00  ADVISORY, ENFORCED
11834 P R LAB 002 TH  10-1130AM  1060 EH  Costa  1  Y
351 Developmental Lab  3.00  ENFORCED
11835 P R LEC 003 TH  10-1130AM  4128 LSA  Probst  4  Y
Research
All sections meet from the 1st day of class, even if they occur before the 1st lecture.
11835 P R LAB 003 TH  10-1130AM  4128 LSA  Probst  4  Y
Research
All sections meet from the 1st day of class, even if they occur before the 1st lecture.
11835 AIR LEC 001 T  10-1130AM  269 WEISER  Buvinger  11  Y
Research
Students are auto-enrolled in Lec 001 when they elect a Dis 002-004.
All sections meet from the 1st day of class, even if they occur before the 1st lecture.
352 Develop-Lang  3.00  ADVISORY
33463 PIR LEC 001 TTH  1130-1PM  373 LORCH  Gardner-Neblett  3  Y
353 Social Development  3.00  ADVISORY
27578 P R LEC 001 MW  830-10AM  7790 AH  Schreier  9  Y
358 Psych of Adolescence  3.00  ENFORCED
27553 P R LEC 001 TTH  1-230PM  1202 SEB  Keating  64  Y
362 Psy Eny Stewardship  3.00
17179 P DIS 002 T  3-4PM  3038 DANA  De Young, Acharya  15  Y
17720 P DIS 003 TH  3-4PM  1024 DANA  De Young, Acharya  14  Y
17721 P DIS 004 M  5-6PM  1046 DANA  De Young, Clark  12  Y
18891 P DIS 005 T  9-10AM  3556 DANA  De Young, Clark  11  Y
18890 P DIS 006 TH  9-10AM  3556 DANA  De Young, Clark  11  Y
19947 P DIS 007 W  5-6PM  1046 DANA  De Young, Acharya  14  Y
17136 A LEC 001 MW  1-230PM  1040 DANA  De Young  64  Y
371 Adv Lab Psychopath  3.00  ADVISORY, ENFORCED
33465 P R LAB 001 TTH  1130-1PM  1505 NUB  Jonovich  2  Y
Research
393 Political Psych  3.00  ADVISORY
24381 A LEC 001 TTH  1-2PM  260 WEISER  Rabinowitz  8  Y
401 Special Problems  1.00-4.00  ENFORCED
24353 PIR SEM 001 MW  1130-1PM  5271 B247 EH  Malley  8  Y
Religion and Spirituality
27644 PIR SEM 009 M  3-6PM  271 WEISER  Conley  11  Y
Adv Research in Sexuality
27582 P R SEM 011 M  10-1130AM  3345 EH  Berg  1  Y
Soc Psych of Empathic Process
27584 P R SEM 014 TTH  1130-1PM  1866 EH  Yu  1  Y
Innov Methodologies in Soc Psy
24385 P R SEM 015 TH  2-5PM ARR  Wang  6  Y
Forces that Shape Culture
Psych 401-015 meets in the Pillsbury Room, East Hall for Winter 2020. Take elevator off of Church Street entrance
to floor "4M". Elevator opens up directly to classroom.
27585 P R SEM 016 W  1-4PM  2247 EH  Stein  1  Y
Trauma&Intim Partner Violence
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<td>Psych 771-001 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance. Doors open directly into classroom.</td>
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U of M Open Classes Only Schedule of Classes  Page 211 of 343  WN 2020 2270 03-27-2020 01:03 22523928
Romance Languages Department

Catalan (CATALAN) Open Sections

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French (FRENCH) Open Sections

--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

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U of M Open Classes Only Schedule of Classes  Page 212 of 343  WN 2020 2270 03-27-2020 01:03 22523928
**Italian (ITALIAN) Open Sections**

--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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---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 Spanish must take the Spanish 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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not take the placement exam and self-enroll in Spanish 101 will be dropped from Spanish 101.

Access to the required online program Contraseña can be purchased through the online bookstore or directly from www.lingrolearning.com. To access Contraseña you will also need a Course ID, which your instructor will provide in class.

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

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232 Second Year Span
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LGBTQA in the Hispanic World

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.

19838 PDR REC 009 MTTHF 12-1PM ARR Telleria-Suinaga 1 Y
23390 PDR REC 013 MTTHF 11-12PM 1500 NQ-LRC F 5 Y

Conozcamos Argentina

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.

24008 PDR REC 017 MTTHF 12-1PM ARR Ramos Silgado 5 Y

Artefactos y patrimonio cult

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.

24011 PDR REC 026 MTTHF 2-3PM ARR Calixto 2 Y
31711 PDR REC 037 MTTHF 8-9AM ARR Iglesias Garrido 8 Y
31336 PDR REC 038 MTTHF 8-9AM ARR Forrester 5 Y
31337 PDR REC 050 MTTHF 4-5PM ARR Sanchez Gumiel 4 Y

277 Rdp, Grammar, & Comp
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Sweetland Center for Writing

Gayle Morris Sweetland Center for Writing (WRITING) Open Sections

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Writing 100 is designed to help students of all levels improve their writing, but is best suited to those who have yet to fulfill the First-Year Writing Requirement. Upper-level students should have a compelling academic reason for enrolling in Writing 100.

Normal waitlist procedures apply for students who attend the first two classes. Students who wish to join Writing 100 after the first two class sessions must email the instructor to set up a meeting to discuss enrolling. Based on this discussion, the student and instructor will then make a determination on whether or not it is appropriate for the student to enroll.

201 | Dig Media Wrtg Mini | 1.00 | P | SEM 001 | F | 1-3PM | G437 MH | Beal | 4 | Y |

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).

29606 | SEM 002 | F | 1-3PM | ARR | Beal | 1 | Y |

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 | SEM 003 | F | 11-1PM | 2230 USB | Tell | 4 | Y |

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).

229 | Editing & Style | 1.00 | | | | Li | 2 | N |

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.

305 | MWrite Fellows | 1.00 | PD | SEM 001 | F | 9-10AM | ARR | Cassel | 22 | N |

340 | Adv Intl Comm | 1.00 | P | SEM 001 | F | 11-12PM | 1135 NQ | Li | 8 | Y |

Writing 340 is for undergraduate students only.

350 | Upper-Lv Writing | 1.00 | P | SEM 001 | W | 11-12PM | 1636 CHEM | Ciacciarelli | 14 | Y |

405 | Contemporary Topics | 3.00 | P | SEM 001 | MW | 230-4PM | G634 HH | Nichols | 7 | Y |

"White Trash" & Rural American

410 | Quant Analys & Wrtg | 3.00 | P | SEM 001 | TTH | 830-10AM | 4128 LSA | Sano | 6 | Y |

Understanding Water Crises

630 | Adv Grad Writing | 1.00 | P | SEM 001 | T | 11-12PM | 1185 NQ | Sessolo | 8 | N |

631 | Dissertation Writing | 1.00 | P | SEM 001 | T | 11-12PM | 1632 CHEM | Brancho | 7 | N |

993 | Teaching Writing | 1.00 | PD | SEM 001 | T | 4-5PM | 1185 NQ | Ciacciarelli | 8 | N |

This class begins on January 14th.

18106 | SEM 002 | W | 9-10AM | 1185 NQ | Ciacciarelli | 11 | N |
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## Slavic Languages & Lit Dept

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### Russian (RUSSIAN) Open Sections

---ALL NON-LANGUAGE COURSES TAUGHT IN ENGLISH, EXCEPT WHERE NOTED.

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**Course is taught in English but requires a reading knowledge of Russian (equivalent to Russian 302).**

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**U of M Open Classes Only Schedule of Classes**

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WN 2020 2270 03-27-2020 01:03 22523928
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# Sociology Department

## Sociology (SOC) Open Sections

--IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE DEPARTMENT MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE FIRST TWO COURSE MEETINGS.

--TO ASSIST THE STUDENT IN SELECTING COURSES, PAST COURSE SYLLABI ARE AVAILABLE AT:  [www.lsa.umich.edu/soc/syllabi](http://www.lsa.umich.edu/soc/syllabi).

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Interested students must fill out an online request at [www.igr.umich.edu](http://www.igr.umich.edu). Due to high demand, students who do not attend the mass meeting on the first day of class will be dropped from the course. If you have questions, please contact Susmetha Baidya (e-mail: sbaidya@umich.edu).

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27294 PD DIS 016 TH 10-11AM 3207 LSA Kemp    3 Y
PH: Health Ambassadors
Project Healthy Schools
27176 AD LEC 001 T TH 1-230PM 1005 WQ Christensen
242 Social Class Exper 3.00
32153 PDR LEC 001 TTH 1-230PM 3254 LSA Lang    6 Y
270 Gender & the Law 4.00
24145 PI DIS 003 F 10-12PM 1105 NQ Facer    2 Y
24147 PI DIS 005 F 12-2PM 1175 NQ Pumper    2 Y
24081 A LEC 001 TTH 4-5PM AUD B AH Peterson 7 Y
300 Principles & Problems 4.00
25004 PDR LEC 001 TTH 1-230PM 1449 MH Gist    7 Y
302 Intro Soc: Hlth & Soc 4.00
25007 P R DIS 003 TH 5-6PM 1469 MH Pointer    2 Y
25008 P R DIS 005 F 8-9AM 3347 MH Warren    11 N
25188 P R DIS 007 F 9-10AM 1460 MH Katre    1 N
25189 P R DIS 007 F 2-3PM 5180B AH Macias    7 N
25005 A LEC 001 TTH 1-230PM 1449 MH Mahan    7 N
303 Race & Ethnicity 4.00
26860 P DIS 002 W 4-5PM 1441 MH Tucker-Shabazz 1 N
26861 P DIS 003 W 5-6PM 3401 MH Tucker-Shabazz 1 N
26862 P DIS 004 W 6-7PM 3448 MH Tucker-Shabazz 9 N
26859 A LEC 001 MW 1130-1PM 1449 MH Kizziar    7 N
304 Amer Immigration 4.00
32138 P DIS 004 W 11-12PM 3242 LSA McAuliffe 4 Y
32135 S LEC 001 TTH 10-1130AM 402 TMC Pedraza    4 Y
305 Intro Soc Theory 4.00
21022 P R DIS 002 F 9-10AM 4128 LSA Hawks Jr    11 N
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
19186 P R DIS 003 F 11-12PM 1428 LSA Hawks Jr    1 N
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
19187 P R DIS 004 F 2-3PM 4128 LSA Hawks Jr    6 N
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17703 A LEC 001 TTH 1-230PM 3254 LSA McGinn    7 N
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313 Soc Sci Theory I 4.00
25053 J SEM 001 WF 10-12PM 402 B834 EQ Robinson 7 N
317 Commu & Capit E Eur 4.00
25759 PI DIS 003 TH 4-5PM 238A WH Babin, Fehervary 1 N
25764 PI DIS 004 F 10-11AM 1507 NUB Deoanca, Fehervary 3 N
25769 PI DIS 005 F 11-12PM 1024 DANA Deoanca, Fehervary 4 N
25749 A LEC 001 TTH 1130-1PM 260 WEISER Fehervary 1 N
320 IGR Facilitation 3.00
28947 PI SEM 001 MW 230-4PM 28947 PI SEM 001 MW 230-4PM 402 G160 AH Kim 2 N
321 Dialog Prac 4.00
28949 PI SEM 002 M 230-530PM 5179 AH Hicks 12 N
324 Advanced IGR Prac 1.00-4.00
28951 PI LAB 001 ARR ARR Hicks 24 N
325 Project Com Adv Prac 4.00
U of M Open Classes Only Schedule of Classes Page 225 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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*Time May Change*
Statistics Department

Data Science (DATASCI) Open Sections

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Statistics (STATS) Open Sections

---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.

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

You MUST bring your own laptop to this lab section. Please contact statsugprogram@umich.edu if you have any questions. Chromebooks will NOT work in this lab.

11922 P  LAB 007 M 830-10AM 2244 USB Deeke 1 Y

11933 P  LAB 018 M 4-530PM G444C MH Bennett 1 Y

11935 P  LAB 020 M 530-7PM G444C MH Liu 4 Y

11936 P  LAB 021 T 830-10AM G444B MH Tran 1 Y

11943 P  LAB 028 T 1-230PM G444C MH Wang 1 Y

11948 P  LAB 033 T 530-7PM G444B MH Luan 8 Y

16625 P  LAB 045 W 4-530PM G444C MH Liu 1 Y

16780 P R LAB 046 W 10-1130AM B760 EH Jin 6 Y

Winter 2020 exams:

Exam 1: Thu, Feb 20, 6-7:30 pm
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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
When selecting a lab section, please note there are 68 lab sections which number to section 074.

Please contact statsugradprogram@umich.edu with questions.

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## Women's Studies Department

**Womens Studies (WOMENSTD) Open Sections**

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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**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**

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**U of M Open Classes Only Schedule of Classes Page 235 of 343 WN 2020 2270 03-27-2020 01:03 22523928**
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LOCATION  
INSTRUCTOR Grewal
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Contact ChemicalBiology@umich.edu for registration inquiries.
Program in Biomedical Sciences

Biomedical Sciences (PIBS) Open Sections

504  Rigor in Research  1.00
30622  P  DIS 001  T  1-3AM  ARR  Barolo  58  N
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.

600  Biomed Sci Ind Std  1.00-8.00  ADVISORY
   IND +  ARR  ARR  3  N
722  Manuscript Writing  2.00
30899  P  LEC 001  W  3-430PM  5370 THSL  Puthenveedu  14  N
2020 Class meets in Taubman Library room 5370

800  PIBS Seminar  1.00
21742  P R  SEM 001  T  4-5PM  ARR  Barolo  2  N
class held in NLH Med Sci II
This course is for first year PIBS students only. Class will be held in NLH Med Sci II
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## Cellular and Molecular Biology

**Cellular And Molecular Biology (CMBIOL) Open Sections**

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Winter 2015: "Manipulating Genomes: Applications for Basic Science and Disease"
Dermatology Department

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**Human Genetics (HUMGEN) Open Sections**

- **480 Neurodevelopment Disorders**
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- **542 Molec Basis HG Dis**
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- **580 Neurodevelopment Disorders**
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  - PREREQ: ADVISORY
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- **630 Genetics**
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- **651 Medical Genetics II**
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- **652 GC Sem IV: Prof Dev**
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- **659 Gene Couns Clin Intrn**
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- **665 Statist Popul Genet**
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- **800 Research Non-Phd**
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  - PREREQ: ADVISORY
  - LAB FEE: 25
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- **803 Adv Topics Genetics**
  - CR: 3.00
  - PREREQ: ADVISORY
  - LAB FEE: 25
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- **822 Student Sem**
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- **990 Diss-Precand**
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- **995 Diss-Cand**
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## Int Med-General Medicine

### Health and Health Care Research (HHCR) Open Sections

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### Additional Notes
- **Res Hlth&Soc 2** (701): PI SEM 001 TH 130-430PM
- **Res Des&Analysis 2** (711): PI SEM 001 W 830-1130AM
- **Lab Res Meth&Analy 2** (721): PI LAB 001 W 2-5PM
- **Lead&Career Dev 2** (731): PI LEC 001 TH 11-1230PM
- **H Care Del Fin Pol 2** (741): PI LEC 001 F 9-12PM
- **Research Practica 2** (751): IND + ARR ARR
### Internal Medicine Department

#### Internal Medicine (INTMED) Open Sections

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Department of Learning Health Sciences

Learning Health Sciences (LHS) Open Sections

600  Precis Hlth Sem  0.50-1.00  PD SEM 001  ARR  ARR  Piatt  13  N

610  Expl Data Anlys Hlth  3.00  S LEC 001  ARR  ARR  Singh, Vydisswaran

Lectures will be available online for students to view at their convenience. Lecture material will be reviewed in the in-person discussion sessions.

611  Knowl Repres&Mgt Hlt  3.00  B137 MLB Landis-Lewis  7  N

610 LHS 671 will meet in room 5330 THSL with the exception of March 25 when it will meet in 5320 THSL.

712  NLP on Health Data  3.00  B137 MLA Landis-Lewis  11  N

This class meets in the following classrooms:
-- Feb. 3: 3813/17 Med Sci 2
-- Feb. 10-Mar. 30: 2901 THSL
-- Apr. 6: 1170 SPH 2
-- Apr. 13-20: 2901 THSL

750  Hlth Inf Sem 2  2.00  LHS 750.001 will meet in room 6432 THSL with the exception of April 15, 2020, when it will meet in 1161M NIB.

791  Independent Study  1.00-8.00  ARR  ARR  Vydisswaran, Yu  25  N

Medical Education (MEDEDEC) Open Sections

499  UG Med Educ Res  1.00-16.00  ARR  ARR  25  N

599  Med Educ Research  2.00-8.00  ARR  ARR  25  N

650  MHPE Ed Prof Act. 1  6.00  R IND +  ARR  ARR  25  N

655  MHPE Ed Prof Act. 2  6.00  R IND +  ARR  ARR  17  N

660  MHPE Ed Prof Act. 3  6.00  R IND +  ARR  ARR  24  N

665  MHPE Ed Prof Act. 4  6.00  R IND +  ARR  ARR  21  N

670  MHPE Ed Prof Act. 5  6.00  R IND +  ARR  ARR  22  N

675  MHPE Ed Prof Act. 6  6.00  R IND +  ARR  ARR  25  N

695  MHPE Capstone  1.00-9.00  R IND +  ARR  ARR  24  N
### Mary H. Weiser Food Allergy Center

**Immunology, Health and Society (IHS) Open Sections**

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## Medical School

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### Medical School Administration

#### Immunology (IMMUNO) Open Sections

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<th>LAB FEE</th>
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*Experimental Immunology course takes place in A515 BSRB*
Medical School

Inteflex Medical School (INFLXMED) Open Sections

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Medical School Administration

Medical School Administration (MEDADM) Open Sections

**505 Human Gross-Dent**

- **Class #**: 15927
- **Days**: MW
- **Time**: 1-2PM
- **Location**: ARR
- **Instructor**: Cortright
- **Seats Available**: 100

- **Class #**: 15928
- **Days**: MW
- **Time**: 2-5PM
- **Location**: ARR
- **Instructor**: Cortright

- **Time**: 4.00-7.00
- **Prerequisite**: ADVISORY
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Medical School
Radiology (RADIOL) Open Sections

U of M Open Classes Only Schedule of Classes  Page 256  of  343  WN 2020 2270 03-27-2020 01:03 22523928
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Meets in Furstenberg Student Study Center Labs. Near Taubman Medical Library and Medical Science II-2nd floor.
## Neurology Department

### Neurology (NEUROL) Open Sections

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# Center For Neuroscience

## Neuroscience (NEUROSCI) Open Sections

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<tr>
<td></td>
<td><strong>Please note that if you have not met the required or advisory prerequisite for this course you may still be able to register, please email the course director for an override.</strong></td>
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<td><strong>Human Neuroanatomy</strong> --- 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.**</td>
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<td><strong>February 14 to March 25 for Behavioral and Cognitive Neuroscience 615</strong></td>
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*U of M Open Classes Only Schedule of Classes*
Neurosurgery
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Obstetrics And Gynecology Dept
Obstetrics and Gynecology (OBSTGYN) Open Sections
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**Ophthalmology Department**

**Ophthalmology (OPHTH) Open Sections**
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Pediatrics & Comm Diseases Dep

Pediatrics (PEDIAT) Open Sections

Class # CODE CMP SEC DAYS TIME LOCATION

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# Pharmacology Department

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### Physical Medicine & Rehab Dept

**Physical Medicine & Rehabilitation (PMR) Open Sections**

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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.*
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<th>Title</th>
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PreMedical PostBaccalaureate Program

Post-Baccalaureate Premedical Program (MEDPREP) Open Sections

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Fnds Physicians for Aspiring Physicians
Will meet in 2960 Taubman Health Sciences Library
# Psychiatry Department

**Psychiatry (PSYCHIAT) Open Sections**

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Surgery Department
Surgery (SURGERY) Open Sections
## Urology Surgery

**Urology (UROLOGY) Open Sections**

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Time: 2.00-8.00
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) Open Sections

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<tr>
<td>Congolese 20475 P LAB 002 MW</td>
<td>9-10AM</td>
<td>DANCE STUDIO B Biza</td>
<td>11 Y</td>
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<tr>
<td>Chinese Folk 20477 P LAB 004 MW</td>
<td>4-5PM</td>
<td>DANCE STUDIO B Wang</td>
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<tr>
<td>West African 20478 P LAB 005 MW</td>
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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

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.

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Students will develop collaborative skills needed for teamwork, community building, and social harmony.

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!
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.

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 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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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.

U of M Open Classes Only Schedule of Classes Page 274 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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. I will encourage you to participate with ideas and perhaps to create materials that potentially could be included for the final presentation.

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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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 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.

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Modern Lab

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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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 dancers 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.

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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.

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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.

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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
tradi_ons, 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
influence_ and holistic learning experi_ence.

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.

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.

Modern Lab
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.

342 World Dance

30472 P LEC 001 MW 10-1130AM B830 EQ Genne

This class is a meet-together with RCHUMS 235 and meets in B830EQ.

347 Dancing Cities

33949 PI LEC 001 MW 12-130PM 2265 NQ Kane

348 Africartist Trad

20493 PD LEC 001 MW 10-1130AM DANCE STUDIO B Wilson

372 Dance Production

20500 PD LEC 001 TTH 2-330PM DANCE STUDIO C Cole

391 Thesis Project Lab

24506 PD LAB 001 ARR ARR Gonzalez

30557 PD LAB 003 ARR ARR Chavasse

30559 PD LAB 004 ARR ARR Croft

38522 PD LAB 005 ARR ARR Bissey

402 Modern Dance IV

20499 PD LAB 001 TTH 10-1130AM DANCE STUDIO A Bascom

30447 PD LAB 002 TTH 12-130PM DANCE STUDIO A Frazier

402 Modern Dance IV

20494 PD LAB 001 MW 2-330PM DANCE STUDIO A Godboldo

412 Ballet IV

20498 PD LEC 001 TTH 830-10AM DANCE STUDIO D Jelinkova

414 Ballet IV

20497 PD LAB 001 MW 12-130PM DANCE STUDIO D West

422 Senior Repertory

20491 Joel VM Rep

20544 PD LAB 002 MW 7-8PM DANCE STUDIO A Matijas-Mecca

28091 Carlos PG Rep

20544 PD LAB 003 TTH 6-7PM DANCE STUDIO A DeJesus

30448 Ron DJ Rep

20544 PD LAB 004 TTH 7-8PM DANCE STUDIO A Matijas-Mecca

34623 Rosie Rep

20544 PD LAB 005 TTH 6-8PM DANCE STUDIO D Hopper, Matijas-Mecca

428 Senior Lab

19928 PD LAB 001 F 10-12PM DANCE STUDIO D West

428 Senior Lab

3089 PD LAB 009 MW 5-6PM DANCE STUDIO B Taylor

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.

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 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.

496 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.

30450 PD LAB 006 F 1-3PM DANCE STUDIO D Rosario 17 Y
30452 PD LAB 008 MW 4-5PM DANCE STUDIO B Wang 17 Y
36408 PD LAB 010 F 10-12PM DANCE STUDIO B Davis 30 Y

494 Intro Choreography/Composition

36949 PD LAB 011 F 3-5PM DANCE STUDIO A Torijano 25 N

Modern Lab

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.

482 Teaching Methods

3.00 ENFORCED
20277 PDR LEC 001 MW 9-11AM ARR Beck 21 Y
Dance 482.001 will meet in Studio A
34625 PDR LEC 002 TTH 4-6PM ARR West 20 N
Dance 482.002 will meet in Studio A.

494 Senior Concert

4.00 ADVISORY
21304 PD LAB 001 M 9-10AM DANCE STUDIO C Cole 11 Y
30456 PD LAB 002 M 4-5PM ARR Cole 6 N
DANCE 494.002 will be held in Mary Cole's office - Room 3501 in the dance building.

496 Therapeutic Kinesiology

1.00-3.00
34630 PI LEC 001 TTH 8:30-10AM DANCE STUDIO C Neslund 2 N

Improvisation

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 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.

494 Independent Study

1.00-3.00 ADVISORY
20205 PD LAB 001 ARR ARR 25 N
20660 PD LAB 002 ARR ARR 25 N
20661 PD LAB 003 ARR ARR 25 N
20662 PD LAB 004 ARR ARR 25 N
20663 PD LAB 005 ARR ARR 25 N
20664 PD LAB 006 ARR ARR 25 N
20665 PD LAB 007 ARR ARR 25 N
20666 PD LAB 008 ARR ARR 25 N
20667 PD LAB 009 ARR ARR 25 N
20668 PD LAB 010 ARR ARR 25 N
20669 PD LAB 011 ARR ARR 25 N
30450 PD LAB 006 F 1-3PM DANCE STUDIO B Rosario 17 Y
30452 PD LAB 008 MW 4-5PM DANCE STUDIO B Wang 17 Y
36408 PD LAB 010 F 10-12PM DANCE STUDIO B Davis 30 Y

502 RIA 2

3.00 ENFORCED
34629 PDR LEC 001 MW 9-1030AM DANCE STUDIO D Kane 7 N

500 RIA 3

1.00
27801 PD LEC 002 ARR ARR Kane 21 N
27802 PD LEC 003 ARR ARR Wilson 25 N
27803 PD LEC 004 ARR ARR Chavasse 25 N
27804 PD LEC 005 ARR ARR Chavasse 25 N
27805 PD LEC 006 ARR ARR Croft 25 N
27806 PD LEC 007 ARR ARR Sparling 25 N

511 Ballet

1.00 ADVISORY
19918 PD LAB 001 MW 12-130PM DANCE STUDIO D West 22 Y
36621 PD LAB 006 MW 2-330PM ARR Rice 3 N
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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.
Arts Administration (ARTSADMN) Open Sections

**406 Special Topics 1.00-3.00**

IDEA: Inclu/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**

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.

**493 Special Projects 1.00-3.00**

IDEA: Inclu/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.

**34716 P LEC 003 M 630-830PM 2044 MOORE Arthur**

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.

**526 Fundraising Arts 2.00**

**528 Arts Leadership 1.00**

**531 Running Arts Orgs 1.00**

**533 Media Tech Careers 1.00**

**535 Producing Theatre 3.00**

**572 Business of Music 3.00**

**593 Special Projects 1.00-3.00**

**595 EXCELerator Projects 1.00-3.00**

**597 Community Service 1.00-3.00**

Baroque Cello (BARCELLO) Open Sections

Bassoon (BASSOON) Open Sections

Carillon (CARILLON) Open Sections

Cello (CELLO) Open Sections
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**Chamber Music (CHAMBER) Open Sections**

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This course will meet in 2257 Moore

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This course will meet in 2257 Moore

**Clarinet (CLARINET) Open Sections**

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This course will meet in Duderstadt Center: EMS A & B

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**Conducting (CONDUCT) Open Sections**

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Instrumental

Wind & Percussion Majors.

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Choral

Choral, General Music, and Organ-Church Music Majors.

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Meets in 1374 with CONDUCT 503

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Meets in 1374 with CONDUCT 503
Double Bass (DBLBASS) Open Sections

Course Title: Performance
Class #: 150
CR: 2.00
CR PREREQ: I IND +
LOCATION: 2038 MOORE
INSTRUCTOR: Rogers Jr
OPEN SEATS: 13
WL: N

Course Title: Performance Lab
Class #: 25117
CR: 1.00
CR PREREQ: Dimoff
LOCATION: LAB 176
INSTRUCTOR: Dimoff
OPEN SEATS: 48
WL: N

Course Title: Performance Lab
Class #: 25118
CR: 1.00
CR PREREQ: Dimoff
LOCATION: LAB 176
INSTRUCTOR: Dimoff
OPEN SEATS: 48
WL: N

Early Music (EARLYMUS) Open Sections

Course Title: Basso Continuo II
Class #: 551
CR: 2.00
CR PREREQ: ADVISORY
LOCATION: 1320 MOORE
INSTRUCTOR: Gascho
OPEN SEATS: 5
WL: N

Ensemble (ENS) Open Sections

Course Title: St Read Skills-Pro
Class #: 181
CR: 2.00
CR PREREQ: ADVISORY
LOCATION: 361 MOORE
INSTRUCTOR: Collier
OPEN SEATS: 12
WL: N

Course Title: Int Indonesian Orch
Class #: 307
CR: 1.00-2.00
LOCATION: 1320 MOORE
INSTRUCTOR: Appleton
OPEN SEATS: 43
WL: N

Course Title: Int Indonesian Orch
Class #: 307
CR: 1.00-2.00
LOCATION: 1320 MOORE
INSTRUCTOR: Albert
OPEN SEATS: 76
WL: N

Course Title: Orch Rep-Strings
Class #: 325
CR: 1.00-2.00
LOCATION: 2058 MOORE
INSTRUCTOR: Dimoff
OPEN SEATS: 14
WL: N

Viola
Class #: 13095
CR: 1.00-2.00
LOCATION: 2020 MOORE
INSTRUCTOR: Coade
OPEN SEATS: 18
WL: N

Viola
Class #: 21606
CR: ARR
LOCATION: LAB 005
INSTRUCTOR: Schotten
OPEN SEATS: 18
WL: N

Ensemble (ENS) Open Sections

Viola
Meets in 3042 Moore.

Orc Repertoire-Harp
Class #: 326
CR: 2.00
CR PREREQ: ADVISORY
LOCATION: LAB 001
INSTRUCTOR: Holland
OPEN SEATS: 18
WL: N

String Quartet
Class #: 335
CR: 1.00-2.00
LOCATION: LAB 001
INSTRUCTOR: Votapek
OPEN SEATS: 70
WL: N

Univ Campus Orch
Class #: 344
CR: 1.00
CR PREREQ: ADVISORY
LOCATION: 1380 SM
INSTRUCTOR: Weinberg
OPEN SEATS: 146
WL: N

University Symphony Orchestra
Audition Required. Please see http://smtd.umich.edu/current_students/perf_opps/orchestras.htm for audition information.

University Philharmonia Orchestra
Audition Required. Please see http://smtd.umich.edu/current_students/perf_opps/orchestras.htm for audition information.

Univ Orchestras
Class #: 345
CR: 1.00-2.00
CR PREREQ: ADVISORY
LOCATION: 1380 SM
INSTRUCTOR: Kiesler, Ulintz
OPEN SEATS: 105
WL: N

Univ Band
Class #: 346
CR: 1.00
CR PREREQ: ADVISORY
LOCATION: 1380 SM
INSTRUCTOR: Pasquale
OPEN SEATS: 419
WL: N

University Philharmonia Orch
Class #: 346
CR: 1.00
CR PREREQ: ADVISORY
LOCATION: 1380 SM
INSTRUCTOR: Pasquale
OPEN SEATS: 419
WL: N

Marching Band
Class #: 348
CR: 1.00-2.00
CR PREREQ: ADVISORY
LOCATION: 1380 SM
INSTRUCTOR: Haithcock
OPEN SEATS: 328
WL: N

Univ Choir
Class #: 349
CR: 1.00-2.00
CR PREREQ: ADVISORY
LOCATION: 1320 MOORE
INSTRUCTOR: Stover
OPEN SEATS: 147
WL: N

Univ Chamber Choir
Class #: 350
CR: 1.00-2.00
CR PREREQ: ADVISORY
LOCATION: 1360 MOORE
INSTRUCTOR: Rogers Jr
OPEN SEATS: 116
WL: N

Arts Chorale
Class #: 351
CR: 1.00
CR PREREQ: ADVISORY
LOCATION: LAB 001
INSTRUCTOR: Kobayashi
OPEN SEATS: 269
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Samba/Middle Eastern Percuss

466 Piano Chamber Mus 1.00-2.00 ADVISORY

13124 PI LAB 001 1380 SM Cheng 35 N

13126 Piano Chamber Mus 1.00-2.00 ADVISORY

31293 PI LAB 002 1380 SM Albert 51 N

31294 PI LAB 003 1380 SM Harding 70 N

31295 PI LAB 004 1380 SM Votapek 59 N

31296 PI LAB 005 1380 SM King III 61 N

38223 PI LAB 006 1380 SM Eldan 60 N

38224 PI LAB 007 1380 SM Lyman 67 N

38225 PI LAB 008 1380 SM Jennings 68 N

38226 PI LAB 009 1380 SM Porter 68 N

467 Creative Arts Orch 1.00-2.00 ADVISORY

31265 PI LAB 001 TTH 1380 SM Kirschenmann 24 N

469 Orch Rep Winds&Perc 1.00 ADVISORY

18536 PI LAB 003 TTH 1340 MOORE Kiesler 40 N

470 Orpheus Singers 1.00-2.00 ADVISORY

16617 PI LEC 001 TTH STAMPS Rogers Jr 1 N

525 Orch Rep-Strings 1.00-2.00 ADVISORY

27705 P LAB 001 M 2058 MOORE Dimoff 14 N

526 Orc Rep-Toir-Harp 2.00 ADVISORY

13130 PI LAB 001 ARR Katz 32 N

535 String Quartet 1.00-2.00 ADVISORY

31299 PI LAB 002 ARR Voltapek 70 N

31300 PI LAB 003 ARR Jennings 61 N

540 Piano Accom&Chamb Mus 2.00-6.00 ADVISORY

13131 P REC 001 ARR Albert 76 N

545 University Orchestras 1.00-2.00 ADVISORY

13132 P R LAB 001 MWF 1380 SM Kiesler, Ulintz 105 N

14148 P LAB 002 MWF 1320 MOORE Slywotzky 127 N

553 Mens Glee Club 1.00

22676 P LAB 001 SU 6-8PM AUD 4 MLB Stover 56 N

554 Univ Choral Union 1.00

17346 P LAB 001 M 630-10PM AUD 4 MLB Hanoian 73 N

556 Women's Glee Club 1.00

22675 P LAB 001 M 630-10PM LEC RM 1 MLB Skadsem 55 N

566 Piano Chamber Mus 1.00-2.00

15944 PI LAB 001 ARR Cheng 35 N

566 Piano Chamber Mus 1.00-2.00
Euphonium-Baritone (EUPHBARI) Open Sections

Flute (FLUTE) Open Sections

Fortepiano (FPIANO) Open Sections

French Horn (FRENHORN) Open Sections

Guitar (GUITAR) Open Sections

Harp (HARP) Open Sections

Jazz & Improvisational Studies (JAZZ) Open Sections
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**Music Education (MUSED) Open Sections**

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Musicology (MUSICOL) Open Sections

122 Intro World Music 3.00 ADVISORY
19368 P R LEC 001 TTH 10-1130AM LEC RM 1 MLB
Kaur 1 Y
Attendance is required at the first class meeting, or you may be removed from the course. Registration will not be permitted after the first week of classes.

136 Popular Music 3.00
31322 P LEC 001 TTH 1130-1PM 1350 MOORE
Stein 10 Y

140 History of Music 2.00 ADVISORY
13160 P R DIS 002 F 130-230PM 2044 MOORE
Zhu 3 N
13161 P R DIS 003 F 130-230PM 2038 MOORE
Jones 5 N
13163 P R DIS 005 TH 1030-1130AM 2038 MOORE
Castillo Rodriguez 1 N
13164 P R DIS 006 F 830-930AM 2020 MOORE
Jones 5 N
13166 P R DIS 008 TH 930-1030AM 2038 MOORE
Zhu 3 N
Students are auto-enrolled in lecture when they elect a discussion.

306 Special Course 3.00 ADVISORY
31323 P LEC 001 MW 10-1130AM 806 BMT
Borders 9 N

The Amplified Guitar

346 History of Music
29968 P LEC 002 TTH 3-430PM STAMPS
Getman 23 N
Science Fiction Film Music
33937 P LEC 003 TTH 1130-1PM 1350 MOORE
Stein 10 Y

406 Special Course
19785 P LEC 001 MW 10-1130AM 806 BMT
Borders 9 N

Latinx Music in the US

408 Special Course
25127 P LEC 002 TTH 10-1130AM 506 BMT
Velasquez 5 N

Chinese Music Theatre

481 Special Projects
1 IND + ARR ARR

502 Res Techniques
13173 PIR SEM 001 MW 10-1130AM 3213 MOORE
Mengoazzi 4 N

505 Special Course
22183 P LEC 001 TTH 1-230PM 706 BMT
Kaur 1 N

Classical Music of North India

Registration will not be permitted after the first week of classes.

507 Special Course
25131 P LEC 002 TTH 10-1130AM 506 BMT
Velasquez 5 N
Latinx Music in the US

508 Special Course
23013 P LEC 001 TTH 230-4PM 2020 MOORE
Lam 10 N

Chinese Music Theatre

517 History of Jazz
3126 P LEC 001 MW 1-230PM 706 BMT
Borders 1 N

581 Special Projects
1 IND + ARR ARR

647 20th C Music
29361 P SEM 001 TTH 1-230PM 3213 MOORE
Fulcher 2 N

Totalitarian/Authoritarian Mus

649 St Asian Mus:Chin
31329 PI LEC 001 TTH 1130-1PM 3213 MOORE
Lam 4 N
Mus Perf & Discursive Prac

881 Special Readings
1 IND + ARR ARR

990 Diss-Precand
1 IND + ARR ARR

995 Diss-Cand
4 IND + ARR ARR

Music Performance (MUSPERF) Open Sections

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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**Engaging Performance**

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 Gershwins' 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).
### Piano Accompanying
- **Class #:** 24729
- **Course Code:** P  SEM 002
- **Days:** ARR
- **Time:** ARR
- **Location:** Katz
- **CR:** 4
- **WIL:** N

- **Class #:** 27312
- **Course Code:** P  SEM 005
- **Days:** T
- **Time:** 7:30 PM
- **Location:** 2038 MOORE
- **CR:** 1
- **WIL:** N

### Piano
- **Class #:** 13183
- **Course Code:** P  SEM 006
- **Days:** ARR
- **Time:** ARR
- **Location:** Helton
- **CR:** 32
- **WIL:** N

### Voice
- **Class #:** 30903
- **Course Code:** P  SEM 007
- **Days:** W
- **Time:** 12:30-1:00 PM
- **Location:** 3213 MOORE
- **CR:** 34
- **WIL:** N

### Winds & Percussion
- **Class #:** 882
- **Course Code:** Contemp Direct Ens
- **Days:** ARR
- **Time:** 1.00
- **Location:** ADVISORY

- **Class #:** 13187
- **Course Code:** PIR SEM 001
- **Days:** TTH
- **Time:** 10:30-12:30 PM
- **Location:** 1380 SM
- **CR:** 56
- **WIL:** N

### Musical Theatre (MUSTHTRE) Open Sections

- **Tap Dance II**
  - **Class #:** 152
  - **Course Code:** PIR LAB 001
  - **Days:** TTH
  - **Time:** 9:15-10:45 AM
  - **Location:** 1455 WDC
  - **CR:** 8
  - **WIL:** N

- **Ind Studies**
  - **Class #:** 207
  - **Course Code:** PIR LAB 001
  - **Days:** ARR
  - **Time:** ARR
  - **Location:** Randazzo
  - **CR:** 25
  - **WIL:** N

- **Performance II**
  - **Class #:** 236
  - **Course Code:** P LAB 001
  - **Days:** MW
  - **Time:** 12:30-2:30 PM
  - **Location:** 1455 WDC
  - **CR:** 25
  - **WIL:** N

- **Dance Styles II**
  - **Class #:** 254
  - **Course Code:** PIR LAB 001
  - **Days:** TTH
  - **Time:** 11:30-12:30 PM
  - **Location:** POWER REHEARSAL
  - **CR:** 8
  - **WIL:** N

- **Prod Performance**
  - **Class #:** 260
  - **Course Code:** PIR LAB 001
  - **Days:** ARR
  - **Time:** ARR
  - **Location:** MADAMA, DeBord
  - **CR:** 25
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### Oboe (OBOE) Open Sections

- **Performance**
  - **Class #:** 411
  - **Course Code:** PIR REC 001
  - **Days:** ARR
  - **Time:** ARR
  - **Location:** DeBord, Goodrich
  - **CR:** 12
  - **WIL:** N

- **Performance**
  - **Class #:** 450
  - **Course Code:** PIR LAB 001
  - **Days:** ARR
  - **Time:** ARR
  - **Location:** Walker
  - **CR:** 23
  - **WIL:** N

### Opera (OPERA) Open Sections

- **Opera Workshop II**
  - **Class #:** 451
  - **Course Code:** PIR LAB 001
  - **Days:** TTH
  - **Time:** 10:30-12:00 PM
  - **Location:** 1360 MOORE
  - **CR:** 8
  - **WIL:** N

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**U of M Open Classes Only Schedule of Classes**

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**Organ (ORGAN) Open Sections**

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**Media Technology Careers**

This course explores how today's leading technology companies bring products to market and how artists, musicians, composers, engineers, business and computer science students might contribute and become part of these companies. Topics include best practices to department functions. Online resources offer insights into real, working companies. Instructor will visit campus to meet with students.

**Design Lab**

This course explores how today's leading technology companies bring products to market and how artists, musicians, composers, engineers, business and computer science students might contribute and become part of these companies. Topics include best practices to department functions. Online resources offer insights into real, working companies. Instructor will visit campus to meet with students.
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### Saxophone (SAX) Open Sections

### Study Exchange (STDEXCH) Open Sections
"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.
**Trombone (TROMBONE) Open Sections**

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**Trumpet-Cornet (TRUM) Open Sections**

**Tuba (TUBA) Open Sections**

**Viola (VIOLA) Open Sections**

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Meets in Britton (1340 SM) on select Tuesdays for String Showcase

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String Showcase

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String Showcase

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**Wellness for Performing Arts (WELLNESS) Open Sections**

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U of M Open Classes Only Schedule of Classes  Page 295  of  343  WN 2020 2270 03-27-2020 01:03 22523928
# Theatre And Drama

## Theatre & Drama (THTREMUS) Open Sections

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### 182 Acting II

- **27477** P  
  - REC 003
  - MW  
  - 1030-1230PM
  - 1415 WDC
  - Packard
- **182** Acting II
  - 3.00
  - ADVISORY
- **BFA Musical Theatre**

### 211 Intro Drama

- **29329** P  
  - REC 001
  - MW  
  - 1130-1PM
  - G115 AH
  - Westlake
- **211** Intro Drama
  - 2.00-3.00
  - This class is intended for non-theatre majors

### 250 Intro Tech Tht Prac

- **13225** P  
  - LEC 001
  - TTH  
  - 930-11AM
  - 2439 WDC
  - Decker
- **13226** S  
  - LAB 003
  - MW  
  - 1-3PM
  - ARR
  - Decker
- **13227** S  
  - LAB 004
  - MW  
  - 3-5PM
  - ARR
  - Decker
- **13228** S  
  - LAB 005
  - TTH  
  - 1-3PM
  - ARR
  - Decker
- **13229** S  
  - LAB 006
  - TTH  
  - 3-5PM
  - ARR
  - Decker
- **13230** S  
  - LAB 007
  - F  
  - 1-5PM
  - ARR
  - Decker
- **250** Intro Tech Tht Prac
  - 3.00
  - Students must elect either lecture section 001 or lecture 002 PLUS a lab section (003-007).

### 251 Practicum I

- **13231** P  
  - LAB 001
  - ARR
  - Uffner-Elliott
- **251** Practicum I
  - 1.00

### 252 Prod Practicum II

- **13232** P  
  - LAB 003
  - ARR
  - Mountain
- **252** Prod Practicum II
  - 1.00
  - ADVISORY

### 256 Lighting Design I

- **18318** P  
  - REC 001
  - TTH  
  - 10-1130AM
  - 2413 WDC
  - Murphy
- **256** Lighting Design I
  - 3.00
  - ADVISORY

### 261 Practicum III

- **38552** P  
  - REC 002
  - MW  
  - 3-5PM
  - 2233 WDC
  - Murphy
- **261** Practicum III
  - 1.00
  - ADVISORY

### 262 Practicum IV

- **13247** P  
  - LAB 003
  - ARR
  - Mountain
- **262** Practicum IV
  - 1.00
  - ADVISORY

### 270 Costume Design I

- **36783** P  
  - REC 002
  - MW  
  - 330-530PM
  - 2233 WDC
  - Myers
- **270** Costume Design I
  - 3.00
  - ADVISORY

### 271 Movement II

- **25282** P  
  - REC 001
  - TTH  
  - 9-11AM
  - 1435 WDC
  - Kassabova
- **271** Movement II
  - 2.00
  - ADVISORY

### 283 Script Analysis

- **27478** P  
  - REC 003
  - F  
  - 2-4PM
  - 2439 WDC
  - Mbala Nkanga
- **283** Script Analysis
  - 2.00

### 322 Theat Hist II

- **13255** P  
  - REC 001
  - TTH  
  - 1-3PM
  - 2439 WDC
  - Hughes
- **322** Theat Hist II
  - 3.00
  - ADVISORY

### 323 Am Thtr-Drama

- **21353** P  
  - LAB 001
  - ARR
  - Wagner
- **323** Am Thtr-Drama
  - 3.00
  - ADVISORY, ENFORCED

### 324 Community Practicum

- **30626** P  
  - REC 001
  - ARR
  - Gonzalez, Erickson
- **324** Community Practicum
  - 3.00
  - ADVISORY, ENFORCED

### 325 Contemp Am Th& Drama

- **29600** P  
  - REC 001
  - MW  
  - 1-3PM
  - 2439 WDC
  - Hooker
- **325** Contemp Am Th& Drama
  - 3.00

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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Nursing
School Of Nursing

Health Sciences (HS) Open Sections

404 Gender Based Violence 2.00-3.00
28716 P SEM 001 TH 1-3PM 2000 426NIB Munro-Kramer 44 N

506 Healthcare Theatre 3.00
33930 P DIS 001 TH 1-4PM 1240 426NIB Lee 18 N

540 Trauma Basics 1.00
30763 PDR SEM 001 ARR ARR Herrenkohl 1 N

This course is available only to Nursing, Social Work, and Education students. Nursing students must request enrollment under HS 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-x4G2T2107uRtS9kPJZP2WpDbo0OHZ23IUY3YLzVLAv/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.

741 Interdisc Prob Solv 3.00 ADVISORY
31899 PD LAB 001 W 315-415PM ARR Crane, Wu, Carr 8 N
31899 PD LAB 001 W 430-630PM 0220 JEFFRIES 8 N

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.

852 Linear Modeling 4.00 ADVISORY 100.00
23206 PI LAB 002 W 3-4PM 1184 400NIB Hoffman 8 N
23205 S LEC B001 W 2-3PM 1184 400NIB Hoffman 8 N

Nursing (NURS) Open Sections

194 Context of Care I 3.00
29308 P R LEC 001 T 1-4PM ARR Policicchio, Saint Arnault 52 N

Students will sign up to complete 12 hours of community experience. NURS 194 will meet in 2250 426NIB on all dates except January 21. Class will meet in the 300 NIB Auditorium on January 21.

196 Comm, Grps, & Teams 2.00
29309 P R LEC 001 TH 8-10AM 2250 426NIB Strobbe 52 N

100.00
18633 P R LEC 001 MW 8-10AM 2250 426NIB Petroysan 34 N

Students outside the School of Nursing should complete this survey:
https://umich.qualtrics.com/jfe/form/SV_erNAHG7EOn2M56d for permission to enroll. Please email UMSN-UndergradAdmissions@med.umich.edu if you have any questions. Prerequisite: Biochemistry 212 or equivalent.

211 Anat & Phys Lab 1.00 ENFORCED
30097 P R LAB 002 F 8-9AM ARR Petroysan 2 N
30098 P R LAB 003 F 830-930AM ARR Petroysan 2 N
30100 P R LAB 004 F 9-10AM ARR Petroysan 1 N
30101 P R LAB 005 F 930-1030AM ARR Petroysan 1 N
30105 P R LAB 010 F 12-1PM ARR Petroysan 3 N
30107 P R LAB 012 F 8-9AM ARR Petroysan 6 N
30874 P R LAB 022 F 1-2PM ARR Petroysan 2 N
33768 P R LAB 023 F 130-230PM ARR Petroysan 4 N
33770 P R LAB 025 F 130-230PM ARR Petroysan 6 N

218 Applied Statistics 3.00
29311 P R LEC 001 TTH 1030-12PM SN AUD Peitzmeier 34 N

220 Women’s Hlth

13341 P DIS 003 F 12-1PM 2271 AH 11 Y
13342 P DIS 004 TH 2-3PM 2202 MLB 1 Y
13343 P DIS 005 F 11-12PM 2407 MH 1 Y
13344 P DIS 006 TH 4-5PM B109 MLB 1 Y
13346 P DIS 008 F 10-11AM 2336 MH 2 Y
13348 P DIS 010 W 730-830PM 2202 MLB 3 Y
13350 P DIS 012 W 730-830PM B103 MLB 1 Y
13351 P DIS 013 TH 5-6PM B135 MLB 12 Y
20259 P DIS 014 F 11-12PM 3333 MH 16 Y
20260 P DIS 015 TH 9-10AM 2202 MLB 9 Y
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Students are auto-enrolled in lecture when they elect a discussion. Open to but not limited to CEW students.

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NURS 352 requires registration for one PNE between PNE 301 and PNE 310.

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NURS 354 requires registration for one PNE between PNE 326 and PNE 335.

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NURS 356 requires registration for one PNE between PNE 351 and PNE 364.

NURS 358 requires registration for one PNE between PNE 376 and PNE 385.

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NURS 359 will meet on January 9, February 6, March 12, and April 2 in 3151 400NIB.

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NURS 365 requires registration for one PNE between PNE 351 and PNE 364.

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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.

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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.
## Officer Education Programs

### Air Force Officer Education Program (AERO) Open Sections

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**Air Force Officer Education Program (AERO) Open Sections**

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

#### Military Science (MILSCI) Open Sections

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**Navy Officer Education Program**

**Naval Science (NAVSCI) Open Sections**

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Pharmacy

College Of Pharmacy

Clinical Pharmacy Translational Science (CPTS) Open Sections

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Medicinal Chemistry (MEDCHEM) Open Sections

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Course prerequisite: Biochemistry with a grade of C- or higher.

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This course meets for the first half of the term: 1/8/13 - 2/24/14.

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Second and third year Pharmacy students or permission.

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Meets monthly, see CANVAS site for class schedule.

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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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U of M Open Classes Only Schedule of Classes Page 304 of 343 WN 2020 2270 03-27-2020 01:03 22523928
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This class will meet with PharmSci 1010 beginning Tuesday March 10, 2020.

Undergraduate Senior Standing or Graduate Student Standing. PharmSci 701, Chem 463, or equivalent recommended.

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# Public Health

## Biostatistics Department

### Biostatistics (BIOSTAT) Open Sections

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| 13375 | P R LAB 004 T |  |  | 4-5PM | SPH2 G442A | 3 |
| 18354 | P R LAB 007 F |  |  | 8-9AM | SPH2 G442C | 7 |
| 21789 | P R LAB 008 T |  |  | 5-6PM | SPH2 G442C | 21 |

### Clinical Trials

| 558  |  | 3.00 | ADVISORY |  |  |  |
| 32393 | PD LEC 333 ARR |  |  | ARR |  |  |
| 578  | Practical Training | 1.00-4.00 |  |  |  |  |

### Biostat Inference

| 602  |  | 4.00 | ADVISORY |  |  |  |
| 13377 | P R LEC 001 TTH |  |  | 1-3PM | 1690 SPH1A | 7 |
| 617  | Sampling Theory | 3.00 | ADVISORY |  |  |  |
| 23160 | P R LEC 001 MW |  |  | 830-10AM | ARR | 14 |

### Intro Health Data Sc

| 620  |  | 3.00 | ENFORCED |  |  |  |
| 33844 | P R LEC 001 TTH |  |  | 830-10AM | 1755 SPH1 | 75 |
| 626  | ML for Health Sci |  |  |  |  |  |
| 34195 | PIR LEC 001 MW |  |  | 830-10AM | 3755 SPH1 | 37 |

### App Stat II:Lin Reg

| 651  |  | 3.00 | ADVISORY, ENFORCED |  |  |  |
| 13378 | P R LEC 001 MW |  |  | 1-230PM | 1655 SPH1A | 22 |

### Statist Popul Genet

| 665  |  | 3.00 | ADVISORY |  |  |  |
| 32377 | P R LEC 001 MW |  |  | 230-4PM | 4318 SPH2 | 93 |
| 685  | Nonpar Stat | 3.00 | ADVISORY |  |  |  |
| 32379 | P R LEC 001 TTH |  |  | 10-1130AM | 1170 SPH2 | 7 |

### Anal Categorical

| 695  |  | 3.00 | ADVISORY |  |  |  |
| 29126 | P R LEC 001 MW |  |  | 1130-1PM | 1755 SPH1 | 21 |

### Anal Biostat Invest

| 699  |  | 4.00 |  |  |  |  |
| 13379 | P R LEC 001 TTH |  |  | 1-3PM | 1755 SPH1 | 13 |
| 25158 | P R LEC 002 TTH |  |  | 1-3PM | 2750 SPH1 | 15 |
| 23126 | P R LEC 003 TTH |  |  | 1-3PM | 3755 SPH1 | 45 |

### Seminar in Biostat

| 800  |  | 0.50 | ENFORCED |  |  |  |
| 16148 | P R SEM 001 TH |  |  | 3-5PM | 1690 SPH1A | 87 |

### Advanced Infer II

| 802  |  | 3.00 | ENFORCED |  |  |  |
| 24217 | P R LEC 001 MW |  |  | 10-1130AM | 1170 SPH2 | 3 |

### SEMINARS IN BIOSTAT

| 820  | Readings in Biostat | 1.00-4.00 | ADVISORY |  |  |  |
| 830  | Adv Topics Biostat | 1.00-4.00 |  |  |  |  |
| 881  | Causal Inference | 3.00 | ENFORCED |  |  |  |
| 890  | Disc-Precand | 1.00-8.00 | ADVISORY |  |  |  |
| 995  | Disc-Cand | 8.00 | ENFORCED |  |  |  |

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS.

Students must email the course instructor for permission to enroll.

Contact Nicole Fenech (fenechn@umich.edu) or Fatma Nedjari (fned@umich.edu) to obtain permission - if needed.

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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Health Management And Policy

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On the following Thursdays the course will meet in 1655 SPH1 on most Thursdays.

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.

This course will meet in 1655 SPH1 on most Thursdays.

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

This course section is reserved for students in the Executive Masters program.

This course section is reserved for students in the Executive Masters programs.

This course meets virtually for most Mondays in the winter semester, from 6-7 pm ET via BlueJeans.
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This course section is reserved for students in the Executive Masters program.

In addition to the Monday/Wednesday class meetings there is a practice set session on Fridays 11am-12pm.
Health Behavior & Health Education Department

Health Behavior And Health Education (HBEHED) Open Sections

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# Nutritional Sciences

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Note: This course is meeting in G840 SPH I
### School Of Public Health

#### Public Health (PUBHLTH) Open Sections

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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: jmconv@umich.edu

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For registration questions, contact Jillian McConville at jmconv@umich.edu.

Public health undergraduates are given priority access to enroll in this course, enrollment is restricted to these students until 12/06/19.

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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.

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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.

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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 problemsolving@umich.edu.

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Adv Problem Solving Initiative
Public Policy

School Of Public Policy

Public Policy (PUBPOL) Open Sections

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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 policy, economic, technological, and psychological aspects of pursuing alternative approaches to achieve these interconnected goals.

300 Persuasive Policy Wr

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This course, structured as a seminar and writing workshop, intensively develops students' persuasive writing and critical reading skills through abundant 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 synthesize 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. Moreover, cases will be examined 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.

423 Pol Campaign Strateg

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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

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This course is an introduction to programming and working in STATA, a core statistical program in the social sciences. In a variety of fields, STATA remains the baseline program for analysis, data management, and visualization. In this class, students will learn workflow management in STATA, data import, manipulation, and management, and fundamentals of analysis in the software environment. At its conclusion, students should be ready to begin using STATA in their own analysis and to move forward through self-study.

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

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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
the 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
basic concepts and approaches for reasoning and writing about the normative challenges that operate in public policy.
Topics may include: the creation and cultivation of national myths, passing, propaganda, diplomacy, fake news,
and the extent to which lying compromises government services such as entitlement programs, voting,
and the police.

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, as well 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
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’ll 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.

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 unencumbered 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.

This advanced seminar challenges public policy majors to consider how policy issues are framed and addressed in a
non-US context. (Costa Rica will be the initial focus and location of the study tour but the country may vary in
subsequent years.) Students will study a small number of contemporary policy problems in light of the country’s
specific political, economic, historical and cultural context. The winter break study tour will provide students an
opportunity to discuss the policy issues with local stakeholders. Upon return, students will work in groups to
produce short, formal policy reports that account for country-specific condition.

The country to be studied will be selected by faculty leading the Global Engagement seminar. Approximately 15 Ford
School undergraduate students will be selected to practice in the course, on the basis of application forms to be
submitted early in the fall semester. Priority is accorded to students with a strong interest in international
affairs and/or limited previous experience with travel and study outside the US. There is a modest program fee to
help offset expenditures of the study tour; need based financial assistance may be available.

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 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 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.

**510 Politics of Pub Pol**

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**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 policy. 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 policy-making 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.

**521 Intro Policy Writing**

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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.

**558 Economic Analysis**

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A continuation of PubPol 555 (Micro A), this course will deepen students' understanding of key economic concepts and principles and importantly? apply them 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.

**563 Environmental Policy**

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This course will consider the capacity of North American political institutions to shape effective environmental protection policies, devoting primary emphasis to the United States but also examining Canada and Mexico. It will consider all governmental levels but be particularly attentive to the evolving role of American state governments, including questions of cross-border governance and relations between the federal government and non-US authorities.
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 regulation of industrial emissions of greenhouse gases, 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

This course will provide 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.

**Applied Econometrics**

571

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, survival/duration models, time-series analysis, panel, and time-series cross-sectional models.

**Tax Policy & Business**

575

*Non-Ford students can enroll Ford elective courses beginning December 2.*

**Performance Mgmt**

586

Examining the management of social change initiatives, we will address the key skills and management practices of civil society organizations focusing on the design and delivery of social 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.

**Leadership Within the 3rd Sector**

587

Taught by Phyllis Meadows, Senior Fellow, Health, The Kresge Foundation.

*Non-Ford students can enroll Ford elective courses beginning December 2.*

This course examines 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, survival/duration models, time-series analysis, panel, and time-series cross-sectional models.

**Public Management**

571

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.

**Strategic Communications for Advocacy**

524


This course provides students with 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-Profits**

583

Taught by Katharine (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 mini-course serves as an 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 within society. Future policy makers and nonprofit managers alike will enhance their ability to formulate positions on policy issues that impact the sector.

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.

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.

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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.

Non-law graduate/professional students may apply for the course, 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.
This is a course on how economists think about government revenue and government expenditures—how governments provide an overview of financial markets and institutions, and then considers the causes, consequences, and 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.

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.

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.

This is a course on how economists think about government revenue and government expenditures—how governments
Exercising Influence: Corporate, Governmental, and NGO Diplomacy

University of Michigan by analyzing current campus policies and strategic and policy responses to challenges they leadership behaviors. In addition, students will interact with personnel leading organizational change at the 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 face.

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.

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.
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.

**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 Chryslers), 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.

**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 Chryslers), as well as a term project.**

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Students enrolled in the Science, Technology, and Public Policy (STPP) Graduate Certificate Program must take this course for 3 credits.

**Non-Ford students can enroll Ford elective courses beginning December 2.**

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.

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 alliances 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.

**Non-Ford students can enroll Ford elective courses beginning December 2.**
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Rackham Graduate School

Chemical Biology (CHEMBIO) Open Sections

502 Chemical Biology II 3.00 ADVISORY
17733 PDR SEM 001 TTH 9-11AM 1200 CHEM Wang, Nagorny, Cierpicki, Grembecka 28 N
Contact ChemicalBiology@umich.edu for registration inquiries after December 1st. This course is for PhD students only.

512 MS Chem Bio II 5.00 ADVISORY
28848 P R LEC 001 TTH 9-11AM ARR Iliff 13 N
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 this lecture section will auto-enroll a discussion section (CHEMBIO 512 002) on F 11-12pm (location 1028 DANA).

28849 A DIS 002 F 11-12PM 1006 DANA 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 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 14 N
Register for section 001 for a full semester rotation.
18643 PDR LAB 002 ARR ARR 6 N
Register for section 002 for a January - February half semester rotation.
18644 PDR LAB 003 ARR ARR 6 N
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 Palfey 12 N
This course is available to Chemical Biology graduate students only.

990 Diss-Precand 1.00-8.00
ARR ARR 25 N

995 Diss-Cand 8.00 ENFORCED
IND + ARR ARR 24 N

Museum Studies (MSP) Open Sections

602 Museum Proseminar 2 3.00 ADVISORY
22870 PD SEM 001 MW 6-730PM 049 UMMA Taylor 14 N

611 MSP Reading/Research 1.00-3.00 ADVISORY
IND + ARR ARR 24 N

Rackham Graduate School (RACKHAM) Open Sections

525 Humanities 3.00
25094 P SEM 001 TH 4-7PM ARR Alcock, Courant 15 Y

571 Interdisc Sem 1.00 ADVISORY
24977 P SEM 001 ARR ARR Cowles 3 N

580 Disability Studies 1.00-3.00 ADVISORY
21079 PI SEM 001 TH 2-5PM G463 MH Kupetz 2 N
Disability/Culture
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) Open Sections

<table>
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<tr>
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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 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.

Section 001 meets with Section 010. Seats in Section 010 are reserved exclusively for MAcc students.

Section 001 meets with Section 001. Seats in Section 001 are reserved exclusively for MAcc students.
<table>
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**Business Administration (BA) Open Sections**

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**Business Communication (BCOM) Open Sections**

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Please see the following site for more information:
http://www.bus.umich.edu/CourseManagement/ViewCourseDescriptions.asp?course=685&dept=BA&term=W16
Prior to Fall 2014, this course was offered under the LHC subject area.

Business Economics And Public Policy (BE) Open Sections

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Business Law (BL) Open Sections

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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.
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U of M Open Classes Only Schedule of Classes  Page 330 of 343  WN 2020 2270 03-27-2020 01:03 22523928
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Section 451 meets with Section 001. Seats in this section are reserved for Evening MBA students.

Section 001 meets with Section 321. This section is reserved exclusively for Minor in Business and Master of Management students.

- **Leadership in Orgs**
  - CR: 3.00
  - DAYS: MW
  - TIME: 8:30-10AM
  - LOCATION: B3560 BUS
  - INSTRUCTOR: Case
  - PREREQ: IND + ARR
  - OPEN SEATS: 6

- **InterMission**
  - CR: 3.00
  - DAYS: M
  - TIME: 2:30-4PM
  - LOCATION: R1220 BUS
  - INSTRUCTOR: Thompson
  - PREREQ: IND + ARR
  - OPEN SEATS: 60

- **Trips to Salt Lake City, UT**
  - CR: 3.00
  - DAYS: MW
  - TIME: 1-2:30PM
  - LOCATION: B0560 BUS
  - INSTRUCTOR: Page
  - PREREQ: IND + ARR
  - OPEN SEATS: 24

- **Creativity at Work**
  - CR: 3.00
  - DAYS: M
  - TIME: 9-12PM
  - LOCATION: B3560 BUS
  - INSTRUCTOR: Degraff
  - PREREQ: IND + ARR
  - OPEN SEATS: 5

- **Thriving at Work**
  - CR: 3.00
  - DAYS: MW
  - TIME: 10-11:30AM
  - LOCATION: B3570 BUS
  - INSTRUCTOR: Spritzer, Erwin
  - PREREQ: IND + ARR
  - OPEN SEATS: 1

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.

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.
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.

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**Technology and Operations (TO) Open Sections**

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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.
Section 001 meets with Section 451. Seats in Section 451 are reserved exclusively for Evening MBA students.

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Weekend Master of Business Administration (WMBA) Open Sections
# Social Work

## School Of Social Work

### Social Work (SW) Open Sections

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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.

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Concurrent enrollment in SW 515 is expected.

This class meets in B780 SSWB.

Class meets in room SSWB 2752.

Concurrent enrollment in SW 515 is expected.

Class meets in room SSWB 2752.

Concurrent enrollment in SW 515 is expected.

Concurrent enrollment in SW 515 is expected.

This class meets in B780 SSWB.

Class meets in room B780 SSWB.

Concurrent enrollment in SW 515 is expected.

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This class meets in B780 SSWB.

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Concurrent enrollment in SW 515 is expected.

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Concurrent enrollment in SW 515 is expected.

Concurrent enrollment in SW 515 is expected.
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.

Outside of Class Pre-learning Work begins: 1/15/20
All Day Workshop: 2/22/20 at 426 North Ingalls Bldg, NIB1000
Outside of Class Post-work ends: 2/28/20
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.

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 priority in consideration of possible enrollment permission submit the form by November 14, 2019.

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.
which CAV features should be standardized (or differentiated), how quickly standardization should be pursued, and standardization, which enhances compatibility and interoperability, and differentiation. Students will consider Initiative (PSI). In the realm of connected and automated vehicles (CAVs), there are trade-offs between

New setting and identify how they might learn them in their national placement.

relevant and effective to their new community setting. Students will explore skill sets available to learn in their

examine the impact of their positionalities, assumptions, values and identify a practice framework that is ethical,

prepared to start quickly. Students will participate in trainings about entering and exiting communities and will

University Social Work community. We will examine the organizations where students are placed so that students are

Pre-requisite:  SW 515/531

communication. Students should enroll in 1 credit hour only.

Pinckney, MI a minimum of 3 times in the term. They will also meet for individual and group supervision meetings

In this course, students will participate on an interprofessional team at the student-run health clinic in

Interprofes Educ Exper Seminar

Rac&Ethn Health Dispar/Inequal

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 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.

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 identify 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.

Connected Vehicles Sitzdn 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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Art and Design Study Abroad (ADABRD) Open Sections

306  India Prep  
34131 PD LAB 001  F  10-1PM  ARR  Marinaro  16  N

311  Eco Explorers Prep  
21815 PDR LAB 001  F  10-1PM  ARR  Trumpey  12  N

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.

313  Photographing Paris  3.00
34012 PD LAB 001  ARR  ARR  25  N

320  Burren  1.00-18.00
34009 PD LEC 001  ARR  ARR  23  N

321  Danish Institute  12.00-18.00
38678 PD LAB 025  ARR  ARR  25  N

Furniture Design
22606 PD LAB 061  ARR  ARR  23  N

322  SACI  1.00-18.00
22607 PI LAB 061  ARR  ARR  15  N
24902 PI LAB 063  ARR  ARR  25  N

Serigraphy
330  U Arts London  3.00-18.00
28101 PD LEC 001  ARR  ARR  10  N

334  Loughborough  12.00-18.00
34010 PD LEC 001  ARR  ARR  24  N

349  San Jose  12.00-18.00
30156 PD LEC 001  ARR  ARR  24  N

354  Ravensburg  1.00-18.00
34011 P LAB 001  ARR  ARR  25  N

383  City of Light: Lng&Cul  3.00
34013 P LAB 001  ARR  ARR  25  N

Art and Design (ARTDES) Open Sections

125  Studio: 4D  3.00
22536 P R LAB 002  MW  830-1045AM  ARR  Frelinghuysen  5  Y
22540 P R LAB 006  MW  530-745PM  ARR  Frelinghuysen  1  Y
22542 P R LAB 008  TTH  830-1045AM  ARR  Manos  1  Y
29645 P R LAB 009  TTH  830-1045AM  ARR  Yang  4  Y
23940 P R LAB 010  TTH  2-415PM  ARR  Holoweski  1  Y
29654 P R LAB 011  TTH  2-415PM  ARR  Brauer  3  Y
32614 P R LAB 012  MW  11-114PM  ARR  Frelinghuysen  1  Y
22535 A LEC 001  M  430-530PM  ARR  Manos, White, Brauer, Holoweski, Yang, Frelinghuysen  1  Y

129  First Year Writing  4.00
27636 P R REC 002  TTH  2-330PM  ARR  Hirsch  7  Y

130  Methods of Inquiry  3.00
32615 P R LAB 011  MW  530-745PM  ARR  Barry  1  Y
18906 P R LAB 002  MW  830-1045AM  ARR  Frelinghuysen  1  Y
20561 P R LAB 003  MW  11-115PM  ARR  Hay  9  Y
18909 P R LAB 006  MW  2-415PM  ARR  Manos  1  Y
18910 P R LAB 007  TTH  830-1045AM  ARR  Yang  4  Y
24330 P R LAB 010  TTH  2-415PM  ARR  Hiraq  1  Y
24342 P R DIS 010  TH  1230-130PM  ARR  Beattie  1  Y
23291 A LEC 001  TTH  1130-1230PM  ARR  Beattie  1  Y

151  Art & Design History  3.00
23293 P R DIS 003  T  1230-130PM  ARR  Funkenstein  2  Y
23297 T DIS 007  T  430-530PM  ARR  Steichmann  2  Y
24342 P R DIS 010  TH  1230-130PM  ARR  Funkenstein  4  Y
23291 A LEC 001  TTH  1130-1230PM  ARR  Funkenstein  2  Y

160  Lecture Series I  1.00
21241 P R LEC 001  TTH  5-630PM  ARR  Burgard  73  N

176  Graphic Design  3.00
21821 P R LAB 001  MW  830-1045AM  ARR  Hixson  2  Y
37442 P R LAB 005  TTH  530-745PM  ARR  Greene  7  Y

190  Photoshop  1.00
23282 P R REC 001  MW  530-7PM  ARR  Steichmann  9  Y

192  Illustrator  1.00
32625 P R REC 002  MW  530-7PM  ARR  Burns  2  Y

195  Aug & Virtual Reality  2.00
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Notice: Non-Stamps Graduate Students must contact Professor John Marshall (johnjm@umich.edu) for permission to enroll in this course.
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**Interarts Performance (INTPERF) Open Sections**

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