# Architecture & Urban Planning

## College of Architecture & Urban Planning

### Architecture (ARCH)

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IND + A RR 1.00

579 Investigatn-Thesis
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990 Diss-Precand
IND + A RR 1.00-8.00 ADVISORY

995 Diss-Cand
IND + A RR 8.00 ENFORCED

Dentistry (DENT)

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515 Grand Rounds
P R SEM 001 TH 8-10AM ARR 0.00-3.00 ENFORCED

521B Dental Anatomy & Occlusion
2191 P R LAB 001 F 2-5PM G360 DENT Karl

522 Comp Care Clinic
20584 P R LAB 001 T 9-12PM G360 DENT Fitzgerald, Nalliah

522 Comp Care Clinic
P R LAB 001 T 8-9AM G378 DENT

524 Pathways Program
20532 P R DIS 001 M 2-5PM G378 DENT de Peralta, Sweier

529 Oral Health Promo
27937 P R LEC 001 M 1-2PM G378 DENT Gonzalez, Fontana

532 Cardiology I
20531 P R LEC 001 M 1-2PM ARR 0.00-10.00 ENFORCED

532 Cardiology I
P R LEC 001 F 10-11AM G378 DENT

533 Infection & Immun
20530 P R LEC 001 M 9-10AM G005 DENT

539 Dev. Regen&Genetics
21860 P R LEC 001 TH 8-9AM G005 DENT Sweier

539 Dev. Regen&Genetics
P R LEC 001 F 9-10AM G580 DENT Hu, Kaartinen

551 DSR II:Research Pres
18058 P LEC 001 M 3-4PM ARR 4.00

609B Periodontology II
21184 P R LEC 001 W 8-9AM G322 DENT Richards, Fenno

609B Periodontology II
P R LEC 001 TH 8-9AM G322 DENT

614 Prin of Restorative Dent
26053 P R LEC 002 W 12-1PM G322 DENT

615 Grand Rounds - D2
21181 P R SEM 001 TH 8-9AM G322 DENT

617 Principles of Endodontics I
21188 P R LEC 001 W 12-1PM G322 DENT Botero

623A Diag Sciences II
21183 P R LEC 001 TH 1-2PM G005 DENT Sweier

625 varies by topic
26532 P R LEC 002 M 1-2PM G005 DENT Sweier

630 Survey Design
26533 P R LEC 006 M 1-2PM G005 DENT Sweier

640 On Campus Mini Rotations
26534 P R LEC 008 M 1-2PM G005 DENT Sweier

641 Off Campus Mini Rotations
28172 P R LEC 012 M 1-2PM G005 DENT Sweier

666 Leadership in Dentistry
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667 Integrative Dentistry
26536 P R LEC 016 T 1-2PM G580 DENT Karl

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**Notes:**
- Cat# 625A: Pathways - HC Delivery
- Cat# 625B: Pathways - Research
- Cat# 625C: Pathways - Leadership
- Cat# 625I: D2 Pathways Immersion
- Cat# 660A: IPE Collaboration Seminar
- Cat# 702A: E2 Educational Theory
- Cat# 706A: EE Part B: Lecture
- Cat# 711: Diagnostic Sciences IV
- Cat# 725: Selectives Pathway

**Course Details:**
- **Cat# 625A:** Pathways - HC Delivery
  - Code: SEM 001
  - Time: 8-12PM
  - Location: ARR
  - Instructor: Hamerink, Hamerink
- **Cat# 625B:** Pathways - Research
  - Code: SEM 001
  - Time: 8-12PM
  - Location: ARR
  - Instructor: Chiego Jr
- **Cat# 625C:** Pathways - Leadership
  - Code: SEM 001
  - Time: 8-12PM
  - Location: ARR
  - Instructor: Sweier, Pinsky
- **Cat# 625I:** D2 Pathways Immersion
  - Code: PSI 001
  - Time: 8-12PM
  - Location: G322 DENT
  - Instructor: de Peralta, Chiego Jr
- **Cat# 660A:** IPE Collaboration Seminar
  - Code: LEC 001
  - Time: 3-5PM
  - Location: 1397 DENT
  - Instructor: Fitzgerald

**Additional Notes:**
- Complete Denture Lab
- Dental Ceramics Lab
- Implant Planning and Fab Lab
- Inter-Prof Ed in Anatomical Sc
- D3 Special Projects in CBCE
- TMD, Sleep Bruxism and Occ
- Pathways-HCD
- Pathways-Reseearch
- Pathways-Leadership

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Education

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

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

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

--UNLESS OTHERWISE INDICATED, CLASS PERMISSION (OVER RIDES) ARE AVAILABLE IN 1033 SEB (734-764-7563).

School Of Education

Education C Behavioral Sciences In Education (EDBEHAVR)

<table>
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Crosslisted with Psych 861-001.

Education D Curriculum and Instruction (EDCURINS)

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Education (EDUC)

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Mathematics and Social Justice

Meets with EDUC 490-002.

212  Hist College Athlet

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240  Coaching as Leading

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U of M Schedule of Classes Page 15 of 489  FA 2019 2260 09-09-2019 12:09 21610809
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Secondary UG and MAC students only. Meets with EDUC 650-011. Required for unaligned additional endorsements. Field day/time will be arranged by program. Seminar meets on seven Wednesdays: TBD.

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

317 Observ-Particip Ed
30572 PI LAB 001
1.00-8.00 ADVISORY

320 Honors Ind Study
333 Video Games&Learning
25227 P W LEC 001
1.00-6.00 ADVISORY

330 ED Empwrmt Internship
360 Partners in Learning
31934 P SEM 001
2.00-3.00

365 Intl Poetry Guild
20246 P SEM 001
3.00

390 Comm Learn in ESL
17066 P W SEM 001
3.00

401 Devel Rdg Wrtg Elem
17431 P R LEC 001
3.00

402 Rdg Wrtg Content
22224 P R LEC 001
3.00

403 Ind Rdg Instr Elem
19871 P R REC 001
3.00

411 Teach Elem Sch Math
17915 P R REC 001
2.00

412 Math Instr Mid Sch
29954 P REC 001
3.00

413 Teach Sec Sch Math
10236 P R REC 001
3.00

414 Managing to Teach
1.00

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

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

Class will meet in Ed Studies Conference Room, inside Room 4009.

Community Service and Language, Education and Culture

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

SI  IND + T 1-1AM ARR

SI  IND + ARR ARR

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

SI  IND + T 6-8PM 2328 SEB

SI  IND + ARR ARR

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

SI  IND + T 430-630PM B120 MLB

SI  IND + ARR ARR

Students should obtain permission from instructor and complete Undergrad Independent Study form. Any questions contact tsanf@umich.edu.
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*U of M Schedule of Classes Page 18 of 489*
Teaching & Learn Hist at SCALES
This is the lab section for students registered in EDUC 547-002. Lab is for certification students only.

500  Foundations Literacy  3.00  ADVISORY
32374 P  REC 001  W  9-12PM  2328 SEB  Rosario-Ramos

503  Media Literacies  3.00
25535 P  SEM 001  TH  9-12PM  2218 SEB  Keren-Kolb

504  Teach with Tech  1.00
21165 P  SEM 001  TH  5-8PM  2228 SEB  Stanzler, Pasque
Secondary MAC Cohort 1 (Maize) students. Course meets on six occasions:
22563 P  SEM 002  TH  5-8PM  2228 SEB  Pasque, Stanzler
Secondary MAC Cohort 2 (Blue) students. Course meets on six occasions:

510  Teaching & Learning  1.00
23794 P  SEM 001  ARR  ARR  Robertson
For Elmac 22 students only. Class meets 9/3/19 through 11/21/19.

518  Workshop Teach Math  3.00
10240 P  SEM 001  ARR  ARR  Shaughnessy
Elmac 22 students only. Course ends 11/11/19.

524  Inquiry Educ Issues  3.00
25207 P  SEM 001  TH  4-7PM  2334 SEB  Graves

540  Trauma Basics  1.00
33014 PD  SEM 001  ARR  ARR  Herrenkohl
Outside of Class Pre-learning Work: 9/9/19 - 10/11/19
All Day Workshop: 10/19/19
Outside of Class Post-work: 10/21-10/26/19

541  Trauma Practice  1.00  ENFORCED
32279 P  SEM 001  ARR  ARR  Saunders
Class meets:
1. Outside of Class Pre-learning Work: 10/21-11/2/19
2. All Day Workshop: 11/23/19
3. Outside of Class Post-work: 11/25/19-12/6/19

547  Current Iss Ed Stds  0.50-3.00
31364 P  LEC 001  T  6-8PM  2328 SEB  Morman
Partners in Authentic Learning
Meets with EDUC 360-001. For registration questions, please contact katielsc@umich.edu. Students are required to meet one additional hour each week on-site tutoring and mentoring middle school students enrolled at partner schools. The instructor and GSI will coordinate and support tutoring/mentoring experiences.

548  Admin Ldrsh in Schl  3.00  ADVISORY
22540 P  SEM 001  TH  5-8PM  2310 SEB  Covert
Required for LPAC students.

553  Admin Ldrsh in Schl  3.00  ADVISORY
22540 P  SEM 001  TH  5-8PM  2310 SEB  Covert
Required for LPAC students.

554  Chemistry Education  3.00  ADVISORY
30007 P  LEC 100  THH  1-230PM  A859 CHEM-TBLC  Shultz

561  Intro Higher Educ  3.00
10241 PDWR LEC 001  TH  4-7PM  2228 SEB  Cardona
Priority to Higher Ed MA students. Departmental permission required for others--contact cshpe.support@umich.edu.

570  Prof Sem in Educ  1.00-1.50
25554 P  SEM 001  F  10-12PM  2229 SEB  Freeman
Meets every other week starting September 6th and ends December 6th. There will be no class Friday, November 29th due to the holiday. For ES MA students in Design and Technologies for Learning.

32281 P  SEM 002  F  1-3PM  2334 SEB  Peurach
For ES MA students in the PEIR thread.

32501 P  SEM 004  W  6-8PM  4212 SEB  Coolican
Required for LPAC students. All other ES MA students can enroll with permission of instructor.

571  Prof Sem in Tch Edu  0.50  ADVISORY
26970 P  SEM 001  W  4-6PM  ARR  Saunders
Secondary MAC students only. Course meets on four occasions: TBD.
26971 P  SEM 002  W  4-6PM  ARR  Coolican
Secondary MAC students only. Course meets on four occasions: TBD.
26972 P  SEM 003  W  4-6PM  ARR  Hearn
Secondary MAC students only. Course meets on four occasions: TBD.
26973 P  SEM 004  W  4-6PM  ARR  Stanzler
Secondary MAC students only. Course meets on four occasions: TBD.

580  Disability Studies  1.00-3.00  ADVISORY
21379 PI W  SEM 001  M  1-4PM  G463 MH  Yergeau
Studying Disability Arts&Cult

591  How People Learn  3.00
25271 P  SEM 001  T  1-4PM  2334 SEB  Herrenkohl

593  Lang Development  3.00  ADVISORY
17892 P  LEC 001  F  1-4PM  1315 SEB  Graves
Elmac 22 students and elementary undergrads only. Class meets entire semester. Crosslisted with ELI 593.
26877 P  LEC 002  F  10-1PM  4212 SEB  Barnes
Secondary MAC and UG students only. Crosslisted with ELI 593.

28114 P  LEC 003  F  10-1PM  2328 SEB  Epperson
Secondary MAC and UG students only. Crosslisted with ELI 593.

601  Trfrm Lrng Tchg Tech  3.00
10242 P  RW  SEM 001  M  830-1130AM  2185 NQ  Fishman
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Meets with EDUC 333-001. Class is held in Prechter.

| 604  | Curr Dev & Eval | 3.00 | | |
| 32558 | | | |

| 605  | Intern Learn Tech | 3.00 | | |
| 77x668 | | | |

To request a permission for an independent study class, please go to the SOE website (soe.umich.edu) and click on:

- Forms
- Independent Study
- Class Request Form for Educational Studies

| 616  | Learn Exp Design | 1.50 | | |
| 36141 | | | |

| 622  | Higher Ed Proseminar | 3.00 | | |
| 22954 | | | |


| 638  | Intrn&Dir Field Exp | 1.50 | ADVISORY | |
| 34622 | | | |

For ES MA PEIR students only

| 640  | Ind Study Ed Stud | 1.00-6.00 | ADVISORY | |
| 77x668 | | | |

To request a permission for an independent study class, please go to the SOE website (soe.umich.edu) and click on:

- Forms
- Independent Study
- Class Request Form for Educational Studies

| 645  | Educ&Cult Studies | 3.00 | | |
| 32283 | | | |

| 646  | Ed Policy Analysis | 3.00 | ADVISORY | |
| 36064 | | | |

| 649  | Found Persp Ed Rtrm | 3.00 | | |
| 25365 | | | |

Required for LPAC students to take this section. Open to all other ES MA students. U.S. K-12 focused.

| 650  | Refl Teach Fld Exp | 1.00-3.00 | ADVISORY | |
| 10244 | | | |

Elementary Practicum
Elmac 22 students only.

| 650  | Refl Teach Fld Exp | 1.00-3.00 | ADVISORY | |
| 21454 | | | |

Elementary Practicum
Elmac 22 students only.

| 650  | Refl Teach Fld Exp | 1.00-3.00 | ADVISORY | |
| 21455 | | | |

Elementary Practicum
Elmac 22 students only.

| 650  | Refl Teach Fld Exp | 1.00-3.00 | ADVISORY | |
| 21567 | | | |

Elementary Practicum
Elmac 22 students only.

| 650  | Refl Teach Fld Exp | 1.00-3.00 | ADVISORY | |
| 21568 | | | |

Secondary Practicum
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U of M Schedule of Classes Page 21 of 489
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Narratives around combating human trafficking are narrowly construed, with white cisgender girls typically portrayed as the victims of heteronormative sex trafficking. Such narratives, and interventions meant to aid trafficking victims, overlook LGBTQ+ communities and fail to address their needs. In this class, students will work with stakeholders and incorporate insights from law, social work, public policy, health sciences, and other fields to identify interventions designed to help LGBTQ+ trafficking victims.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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No permissions are required for this class.
Engineering

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

### Aerospace Engineering

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Stats Concepts for Aerothermof

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#### Atm, Oceanic And Space Science

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Students may be dropped from the course for non-attendance on the first class day.
Please note this is a 3 credit hour course.
Cross listed with Psych 808.005.

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

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

BME Grad Innov Design Team I

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

BME Grad Innov Design Team I

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

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

BME Grad Innov Design Team I

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

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BME Grad Innov Design Team I

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## Chemical Engineering Department

### Chemical Engineering (CHE)

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

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### Mat & Energy Balances 4.00 ENFORCED

- **Class #** 10305
- **CODE** S R
- **CMP** LEC
- **SEC** 001
- **DAYS** MWF
- **TIME** 1030-1130AM
- **LOCATION** 1571 GGBL Goldsmith
- **CR** Goldsmith
- **IND**
- **ARR**
- **ARR**
- **FEE**

### Mass & Heat Transfer 4.00 ENFORCED

- **Class #** 16950
- **CODE** P R
- **CMP** DIS
- **SEC** 002
- **DAYS** TH
- **TIME** 1230-1300PM
- **LOCATION** 1571 GGBL Kamcev
- **CR** Kamcev
- **IND**
- **ARR**
- **ARR**
- **FEE**

### Separ Processes 4.00 ENFORCED

- **Class #** 10311
- **CODE** A R
- **CMP** LEC
- **SEC** 001
- **DAYS** MW
- **TIME** 1230-1300PM
- **LOCATION** 2150 DOW Yang
- **CR** Yang
- **IND**
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### Prob Solv & Troubleshoot 3.00 ADVISORY

- **Class #** 21008
- **CODE** P RW
- **CMP** LEC
- **SEC** 001
- **DAYS** MW
- **TIME** 1230-1300PM
- **LOCATION** 1014 DOW Love
- **CR** Love
- **IND**
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- **ARR**
- **FEE**

### Proc Safety Risk Mgt 2.00 ADVISORY

- **Class #** 32754
- **CODE** P
- **CMP** LEC
- **SEC** 001
- **DAYS** T
- **TIME** 130-530PM
- **LOCATION** 1003 EECS Burger
- **CR** Burger
- **IND**
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### Polymeric Materials 3.00 ENFORCED

- **Class #** 10315
- **CODE** P R
- **CMP** LEC
- **SEC** 001
- **DAYS** TTH
- **TIME** 830-10AM
- **LOCATION** 1017 DOW Salehi
- **CR** Salehi
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### Chem Eng Lab II 4.00 ENFORCED

- **Class #** 10316
- **CODE** A R
- **CMP** LEC
- **SEC** 001
- **DAYS** M W
- **TIME** 130-530PM
- **LOCATION** 3409 GGBL Love
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### Proc Dyn & Control 3.00 ENFORCED

- **Class #** 10319
- **CODE** P R
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- **DAYS** M W
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### Proc Sim & Design 5.00 ADVISORY, ENFORCED

- **Class #** 10320
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- **FEE**

### Chem Prod Design I 2.00 ENFORCED

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### Adv Res & Spec Problem 1.00-16.00 ADVISORY, ENFORCED

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- **SEC** ARR
- **DAYS**
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### Spec Topics in Ch E 2.00-3.00 ADVISORY, ENFORCED

- **Class #** 32683
- **CODE** P R
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- **SEC** 001
- **DAYS**
- **TIME** 3-6PM
- **LOCATION** 2238 CSRB Kotov
- **CR** Kotov
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### Solar Energy Conversion

- **Class #** 37221
- **CODE** P R
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How Cities Work
More and more people moving to cities. Nonetheless, most of us remain pretty unaware of all the activities and things needed to keep a city running. In this seminar series you'll learn how cities work, and how we can innovate to build the smart cities of the future. The course will feature talks by prominent research experts, innovators, government officials, community organizers, and industry leaders.

The goal of the course is to empower students with knowledge on how cities work, spanning a myriad of factors that affect people's daily lives in our built environment. Topics will include infrastructure, society, equity, technology, food, environment, public services, and financing, to name a few.

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.

Env Engr Principles
CEE 582 - both lecture and lab - should be taken by students intending to use the class for graduate credit, including SUGS students. CEE 482 lecture should be taken by undergraduate students with no intention of counting this class towards a graduate program. No graduate credit will be granted for CEE 482.
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CEE 482 lecture should be taken by undergraduate students with no intention of counting this class towards a graduate program. No graduate credit will be granted for CEE 482.

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

Conference room 2029 G.G.Brown

Environmental Finance
<table>
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**Notes:**
- Diss-Precand: Advisory
- Diss-Cand: Enforced
CoE Robotics Institute

Robotics (ROB)

501 Math for Robotics 3.00 ADVISORY, ENFORCED
To request an override, a student must enter the waitlist and submit a request to the ROB Override System at https://deptapps.engin.umich.edu/rob/override
23395 P RW LEC 001 TTH 1030-12PM 1500 EECS Gregg IV
37886 PIR LEC 881 TTH 1-230AM ARR
Math for Robotics

510 Robot Kinemat Dynam 3.00 ADVISORY
29207 P W LEC 001 MW 130-3PM 1500 EECS Jenkins
Math for Robotics

535 Self Driving Cars 3.00 ADVISORY
29159 P LEC 001 TH 230-530PM STAMPS Johnson-Roberson, Vasudevan

550 Robotic Sys Lab 4.00 ENFORCED
23419 ADR LEC 001 MW 9-10AM 1012 FXB Gaskell
Enrollment in this course is by department consent. To request an override add name to the ROB 550 Waitlist form: https://goo.gl/forms/h7fre3BFBZyDity72
23420 PDR LAB 011 MW 10-1PM 422 CSRB Gaskell
23421 PDR LAB 012 MW 1-4PM 422 CSRB Gaskell
Enrollment in this course is by department consent. To request an override add name to the ROB 550 Waitlist form: https://goo.gl/forms/h7fre3BFBZyDity72
590 Directed Study 1.00-6.00
599 Special Topics ROB 3.00 ADVISORY
35421 PDR LAB 001 TW 130-430PM 1620 BEYSTER Haggenmiller, Atkins
Programming for Robotics
In this class we will build up a robotics simulation environment to experiment with concepts and algorithms such as Braitenberg vehicles, potential fields, PID control, the Kalman filter, search, optimization, and SLAM. We will learn how to use the Linux command line and will learn tools for code building, debugging, and static analysis. This class will be taught in C and aims to take the magic out of programming. Class sessions will follow a "labture" format with minimal lecturing and emphasis on in-class programming problems and discussion of the resulting solutions. There will be no exams. Fill out the Google Form waitlist here: https://forms.gle/aFMKzVA528HyvNV7
690 Masters Adv Research 1.50-3.00 ENFORCED
990 Diss-Precand 1.00-8.00
995 Diss-Cand 8.00 ENFORCED
# Design Science Program

**Design Science (DESCI)**

- **501** Analytical Prod Des 3.00 ADVISORY
  
  Non Design Science students interested in DESCI 501 MUST add themselves to the waitlist. If you have questions please email elenac@umich.edu.

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- **503** Design Practicum 3.00-6.00 ENFORCED

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  Class will meet in 165 CHRYSLER.

- **590** Directed Design Res 3.00-6.00 ENFORCED

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- **790** Des Sci Colloquium 1.00-2.00 ADVISORY

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  First-yr students: 1 credit; Second-yr students: 2 credits; Third-yr+: 1 or 2 credits.

- **990** Diss Pre-Cand 1.00-8.00 ADVISORY

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- **995** Diss-Cand 8.00 ADVISORY

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Environmental Sciences and Engineering (ENSCEN)
## Electrical Engr & Computer Sci

### Electrical Engineering And Computer Science (EECS)

It is critical that students attend classes from the beginning of the term. Even though students may be registered officially for a course, the Electrical Engineering and Computer Science Department may give away a student's place in a class if they do not attend the first week of lectures and labs/discussions (as appropriate) for any EECS courses.

At the same time, the EECS Department is not obligated to withdraw students officially from the course, even though the student has been informed that his/her place in a course has been taken away. Students are responsible for the accuracy of their schedules and must be sure that all drops are processed through the registration system during the normal drop/add period.

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Discover Computer Science

| 200  | Elec Eng Sys Des I | 2.00 | ADVISORY |         |
| 31890 | A LEC 001 T | 230-4PM | 2153 GGBL Phillips |         |
| 31891 | P W LAB 011 W | 130-430PM | ARR Pierce |         |

Lab 200-11 will meet in EECs 1230.

| 201  | Comp Sci Pragmatics | 1.00 | ENFORCED |         |
| 32191 | P RW LEC 001 W | 130-3PM | 1670 BEYSTER Darden |         |
| 32192 | P RW LEC 002 F | 130-3PM | 1670 BEYSTER Darden |         |

| 203  | Discrete Math | 4.00 | ENFORCED |         |

Students must elect discussion and lecture sections.

| 16444 | S R LEC 001 T | 9-1030AM | AUD CHRYs Diaz |         |
| 25290 | S R LEC 002 T | 1030-12PM | 1013 DOW Diaz |         |

Students must elect discussion and lecture sections.

| 16444 | S R LEC 003 T | 12-130PM | 1670 BEYSTER Collins-Wildman |         |
| 27605 | S R LEC 004 T | 3-430PM | 2505 GGBL Graetz |         |

Students must elect discussion and lecture sections.

| 21187 | S R LEC 005 T | 430-6PM | AUD CHRYs Graetz |         |

U of M Schedule of Classes Page 40 of 489
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**Intro to Elect Circ** 4.00 ADVISORY, ENFORCED

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS. (Department endeavors to admit all students on the 215 waitlist.)

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

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

**Engineering EM** 4.00 ENFORCED

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

**Intro Logic Design** 4.00 ENFORCED

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

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

STUDENTS MUST ELECT LAB AND LECTURE SECTIONS.

U of M Schedule of Classes Page 41 of 489
STUDENTS MUST ELECT LAB AND LECTURE SECTIONS.

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This will be a digital lecture section.

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

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JAVA.

311 Analog Circuits

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

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ENFORCED

312 Digit Integrat Circ

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314 Elec Ckts, Sys&Appl

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ENFORCED

320 Intr Semicon Devices

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334 Prin of Optics

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

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351 Intro Dig Sig Proc

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367 Intro Autos Robotics

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370 Intro Computer Org

Students must elect discussion and lecture sections.

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Students must elect discussion and lecture sections.
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.

**373 Intro Embed Sys Des**

1. **P RW DIS 023** M 5-6PM 1018 DOW
2. **P RW DIS 024** F 1030-1130AM 1006 DOW
3. **P RW DIS 025** W 430-530PM 1014 DOW
4. **P RW DIS 026** M 430-530PM 104 EWRE

**376 Foundatns Comp Sci**

1. **P RW DIS 027** M 1030-1130AM 1006 DOW
2. **P RW DIS 028** W 430-530PM 1014 DOW
3. **P RW DIS 029** F 12-1PM 2150 DOW

**381 Obj-Orient Adv Prog**

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

**388 Intro Comp Security**

Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

**398 Special Topics**

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

**399 Directed Study**

Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

**402 Prog for Sci&Eng**

Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.
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Only CS-Eng or CS-LSA UGs are able to enroll in this course, or waitlist, if the course is full. Prerequisites: Senior standing or above (CS Major).

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When the class is full, to request an override, a waitlisted student must request a submit a request to the ECE Override System at https://deptapps.engin.umich.edu/ece/override.
442 Computer Vision 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Graduate student can request an override at CSE Override System at https://deptapps.engin.umich.edu/cse/override . Instructor will approve few overrides.

19329 A R LEC 001 MW 5-7PM 1571 GGBL Fouhey, El Banani
19330 P RW LAB 011 TTH 10-12PM 1012 FXB Fu
25718 P RW DIS 012 F 10-11AM 1200 EECS Feng
32902 P RW DIS 013 TH 4-5PM 1018 DOW Dong

443 Senior Thesis 3.00 ENFORCED

To enroll in EECS 443, a student must have had their CS-LSA Honors Thesis application approved by a Faculty Mentor and the CS-LSA CPA. Paperwork can be obtained from the CSE Undergraduate Advising Office, 2808 Beyster Bldg. Once approved, a course permission will be issued to a student under their faculty mentor's section number.

444 Analys Soc Networks 4.00 ENFORCED

19329 A R LEC 001 MW 5-7PM 1571 GGBL Fouhey, El Banani
29585 P RW DIS 011 F 12-1PM 1012 EECS Fu
25718 P RW DIS 012 F 10-11AM 1200 EECS Feng
32902 P RW DIS 013 TH 4-5PM 1018 DOW Dong

445 Intro Machine Learn 4.00 ADVISORY, ENFORCED

Undergrads only. Undergrads who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

32999 S R LEC 001 MW 12-2PM 2505 GGBL Kutty
31690 S R LEC 002 MW 2-4PM 2505 GGBL Kutty
29510 P RW DIS 014 F 12-1PM 104 EWRE
32916 P RW DIS 017 TH 5-6PM 1018 DOW

452 DSP Design Lab 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Undergrads only. Course will open to EE UG who meet course prerequisites on Friday, April 19, 2019.

31690 S R LEC 002 MW 2-430PM 2505 GGBL Kutty
22528 P RW LAB 011 W 3-5PM 4341 EECS
16037 P RW LAB 012 TH 3-5PM 4341 EECS
17032 P R LAB 014 T 3-5PM 4341 EECS
19278 P R LAB 015 F 2-4PM 4341 EECS
21991 P RW LAB 016 W 3-5PM 4341 EECS

455 Wireless Comm Sys 4.00 ENFORCED

10416 A R LEC 001 MW 130-3PM 1303 EECS Meerkov
17438 P RW DIS 011 T 5-6PM 1311 EECS

461 Embedded Control 4.00 ENFORCED

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

16145 A R LEC 001 TTH 12-1PM 1311 EECS Hiskens
16146 P RW LAB 011 TH 8-10AM 4342 EECS
16973 P RW LAB 013 T 2-4PM 4342 EECS
16974 P RW LAB 014 W 10-12PM 4342 EECS
17679 P RW LAB 015 TH 8-10AM 4342 EECS
21991 P RW LAB 016 W 8-10AM 4342 EECS
27281 P RW LAB 018 F 12-2PM 4342 EECS

463 Power Sys Deg&Oper 4.00 ENFORCED

24314 P RW LEC 001 TTH 8-10AM 1311 EECS Hiskens

467 Autonomous Robotics 4.00 ADVISORY, ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LABORATORY. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

29110 A R LEC 001 MW 9-11AM 1690 BEYSTER Kuipers
29111 P RW LAB 011 F 12-2PM A R LEC 001
33003 P RW LAB 012 F 1-3PM A R LEC 001

U of M Schedule of Classes Page 46 of 489 FA 2019 2260 09-09-2019 12:09 21610809
473  Adv Embedded Sys  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.

23223  P  RW  LAB  011  W  6:30-9:30PM  2334  EECS
27969  P  RW  LAB  014  M  3-6PM  2334  EECS

477  Intro to Algorithms  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can
request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising
Office.

22347  A  R  LEC  001  TTH  12-130PM  1014  DOW  Pettie
22348  P  RW  DIS  011  F  9:30-1030AM  1006  DOW
23705  P  RW  DIS  012  F  1130-1230PM  1014  DOW

481  Software Engin  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can
request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising
Office.

31726  A  R  LEC  001  TTH  5:30-7PM  1571  GGBL  Weimer, Krueger
31727  P  RW  DIS  011  F  9:30-1030AM  2153  GGBL  Benge
31729  P  RW  DIS  013  F  12:30-130PM  2153  GGBL  Benge
32926  P  RW  DIS  014  F  2:30-3:30PM  1055  DOW  Holoday

482  Intro Oper System  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students who do not meet major restrictions can
request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising
Office.

24151  S  R  LEC  001  MW  9-1030AM  1670  BEYSTER  Prakash
29109  S  R  LEC  002  MW  12-130PM  1670  BEYSTER  Prakash
10429  P  RW  DIS  011  F  1030-1130AM  3150  DOW
10585  P  RW  DIS  012  F  1130-1230PM  3150  DOW
21729  P  RW  DIS  013  F  12:30-130PM  1003  EECS
22631  P  RW  DIS  014  F  1:30-2:30PM  1003  EECS
23181  P  RW  DIS  015  F  9:30-1030AM  1121  LBME
29513  P  RW  DIS  016  F  1130-1230PM  1005  DOW
29871  P  RW  DIS  017  F  1030-1130AM  1003  EECS
32956  P  R  DIS  018  F  3:30-4:30PM  ARR

484  Database Mgt Syst  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can
request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising
Office.

10428  S  R  LEC  001  MW  9-1030AM  AUD CHRYs  Prakash
29109  S  R  LEC  002  MW  12-130PM  1670  BEYSTER  Prakash
10429  P  RW  DIS  011  F  1030-1130AM  3150  DOW
10585  P  RW  DIS  012  F  1:30-2:30PM  3150  DOW
21729  P  RW  DIS  013  F  12:30-130PM  1003  EECS
22631  P  RW  DIS  014  F  1:30-2:30PM  1003  EECS
23181  P  RW  DIS  015  F  9:30-1030AM  1121  LBME
29513  P  RW  DIS  016  F  1130-1230PM  1005  DOW
29871  P  RW  DIS  017  F  1030-1130AM  1003  EECS
32956  P  R  DIS  018  F  3:30-4:30PM  ARR

485  Web Systems  4.00  ENFORCED
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB. Students who do not meet major restrictions can
request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising
Office.

23064  S  R  LEC  001  TTH  1030-12PM  1109  FXB  DeOrio, Almomani
22349  S  R  LEC  002  TTH  230-4PM  1571  GGBL  DeOrio, Almomani
31805  S  R  LEC  003  TTH  6-730PM  1109  FXB  Almomani, DeOrio
22350  P  RW  LAB  011  W  130-230PM  2166  DOW
22391  P  RW  LAB  012  F  1230-130PM  185 EWRE
22392  P  RW  LAB  013  F  230-330PM  3150  DOW
22393  P  RW  LAB  014  W  1130-1230PM  1005  EECS
23182  P  RW  LAB  015  TH  4-5PM  1690  BEYSTER
23403  P  RW  LAB  016  W  5-6PM  1005  DOW
24430  P  RW  LAB  017  F  130-230PM  1012  FXB
24431  P  RW  LAB  018  F  3:30-4:30PM  1014  DOW
STUDENTS MUST ELECT DISCUSSION AND LECTURE SECTIONS. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

498 Comp Networks 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

490 Prog Lanuages 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

491 Intro to Distrib Sys 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

492 Intro Art Intell 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

493 User Interface Dev 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

494 Comp Game Design 4.00 ENFORCED

Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

495 Software for Access 4.00 ENFORCED

STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

497 Major Des Projects 4.00 ENFORCED

Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

496 Major Design/Prof 2.00 ENFORCED

**4 CREDITS for Lec 001** - Prerequisites for Lec 001: EECS 280, EECS 281. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

**2 CREDITS for Lec 002** - Prerequisites for Lec 002: EECS 281, EECS 370, and concurrent enrollment in EECS 482. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

Conversational AI

"4 CREDITS for Lec 003 and Dis 031" - Prerequisites for Lec 003: EECS 281, EECS 370. STUDENTS ARE
AUTO-ENROLLED IN LECTURE 003 WHEN THEY ELECT A DISCUSSION 031. Enrollment in EECS 498-3 and 498-031 will be by override only, to request an override please waitlist for course. Students who do not meet major restrictions can request permission for this course on or after Wednesday, April 24, 2019 through the CSE Undergraduate Advising Office.

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
<th>CR</th>
<th>PREREQ</th>
<th>LAB FEE</th>
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</thead>
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<tr>
<td>27087</td>
<td>Multidisciplinary Software Dev</td>
<td>4</td>
<td>281, 370</td>
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<td>32836</td>
<td>Cybersecurity for Future Lead</td>
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<td>33137</td>
<td>Accelerators for AI &amp; Health</td>
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<td>EECS 445</td>
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<td>Adv Directed Study</td>
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<tbody>
<tr>
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STUDENTS ARE AUTO-ENROLLED IN LECTURE 002 WHEN THEY ELECT A DISCUSSION 021 OR 022. In Fall, EECS 501 is intended for EECS students. A few non EECS students may be admitted. To request an override, a waitlisted student must submit a request to the ECE Override System at https://deptapps.engin.umich.edu/ece/override.
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<td>Solid State Physics</td>
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<tr>
<td>19321</td>
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<td>3-4PM</td>
<td>1690 BEYSTER</td>
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<td>1030-12PM</td>
<td>3433 EECs</td>
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<td>530</td>
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<td>Machine Learn</td>
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<td>Enrollment in EECS 545 will be by override only. Students will be expected to have a background in probability at the level of EECS 551 and linear algebra at the level of EECS 551 or their equivalents. Students without this background are encouraged to enroll in EECS 505 for a broad, first introduction to the principles and algorithms for machine learning. To request an override into 545, a student must enter the waitlist and submit a request using the ECE override system at <a href="https://deptapps.engin.umich.edu/ece/override">https://deptapps.engin.umich.edu/ece/override</a>.</td>
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<td>2255 NQ</td>
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<td>This class will be meeting in NO2255.</td>
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<td>This class will be meeting in NO2245.</td>
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<td>This class will be meeting in NO2185.</td>
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<td>This class will be meeting in SPH2 M1020.</td>
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<td>550</td>
<td>Information Theory</td>
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<td>16595</td>
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<td>3427 EECs</td>
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<td>551</td>
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<tr>
<td>Enrollment in EECS 551 will be by override only and limited to around 60, with priority to ECE SIPML students and others in closely related tracks. Other students are encouraged to enroll in EECS 505, which covers similar material with a greater emphasis on the accompanying computational mathematics. Credit cannot be received for both EECS 551 and either EECS 598, Section003, Fall 2018 or the Winter 2018 EECS 598, Section 009 or 598, Section 16, Winter 2019. To request an override into 551, a student must enter the waitlist and submit a request using the ECE override system at <a href="https://deptapps.engin.umich.edu/ece/override">https://deptapps.engin.umich.edu/ece/override</a>.</td>
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<td>16954</td>
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<tr>
<td>23225</td>
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<td>25702</td>
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<tr>
<td>545</td>
<td>Dig Comm &amp; Codes</td>
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<td>185 EWRE</td>
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<td>558</td>
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<td>31902</td>
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<td>1303 EECs</td>
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<tr>
<td>560</td>
<td>Linear Systems Thry</td>
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<td>STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.</td>
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<td>1610 IOE</td>
<td>Gillespie</td>
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<td>1013 DOW</td>
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<td>567</td>
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33094 P W DIS 011 M 430-530PM 133 CHRYS 4.00 ADVISORY

579 Digital System Test

32273 A LEC 001 MW 9-1030AM 3150 DOW Hayes
32274 P W DIS 011 T 2-3PM 2150 DOW Goel

583 Advanced Compilers

Enrollment in EECS 583 will be by override only, to request an override please waitlist for course.

19626 P W LEC 001 MW 1030-1230PM 2246 CSRB Mahlke, Park

587 Parallel Computing

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

10442 A LEC 001 TTH 12-130PM 1017 DOW Stout
25285 P W LAB 011 F 12-1PM 1008 FXB
25286 W LAB 012 F 230-330PM 1200 EECS

588 Comp Netwk Security

Enrollment in EECS 588 will be by override only, to request an override please waitlist for course.

31708 S LEC 001 TTH 130-3PM 3150 DOW Genkin
31721 P W LAB 011 F 830-1030AM 2336 EECS

591 Distribute Sys

Enrollment in EECS 591 will be by override only, to request an override please waitlist for course.

29103 P W LEC 001 MW 3-5PM 1005 DOW Kapritsos

592 Al Foundations

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

25342 P RW LEC 001 MW 9-1030AM 9G06 COOL 4.00 ENFORCED

595 Nat Lng Proc

595 will be by override only, to request an override please waitlist for course.

24215 P RW LEC 001 M 9-10AM 9G06 COOL 3.00 ADVISORY

598 Special Topics

Computational Modeling in HCI

"3 CREDITS for Lec 002", Prerequisites for Lec 002: Programming experience in Java, Python, MATLAB, or R. Enrollment in EECS 598-2 will be by override only, to request an override please waitlist for course.

29371 P W LEC 003 MW 9-1030AM 2166 DOW Mathieu

Power System Markets & Opt

"3 CREDITS for Lec 003", Prerequisites for Lec 003: EECS 463 or permission of instructor

32837 P W LEC 004 MW 130-3PM 1008 EECS Willingale

Laser Plasma Diagnostics

"3 CREDITS for Lec 004", Prerequisites for Lec 004: EECS337 or permission of instructor

29455 P W LEC 005 MW 430-6PM 1670 BEYSTER Johnson, Jang, Zhou, Lee

Deep Learning for Vision

"3 CREDITS for Lec 005", Enrollment in EECS 598-5 will be by override only, to request an override please waitlist for course.

29394 P W LEC 006 MW 1030-12PM 1003 EECS Kim

VLSI for comm and ML

"3-4 CREDITS for Lec 006", Prerequisites for Lec 006: (351 and (312 or 370)) or graduate standing

33076 P W LEC 007 W 640-840PM 1060 JEFFRIES Schlanger, Haldeman

Surveillance Law & Technology

"1 CREDIT for Lec 007", Prerequisites for Lec 007: Graduate standing or permission of instructor.

33115 A LEC 008 M 330-630PM 1005 EECS Lasecki

Human-AI Interaction

"4 CREDIT for Lec 008 and Dis 081", Prerequisites for Lec 008 and Dis 081: Graduate standing in CSE or SI. Enrollment in EECS 598-8 and 598-081 will be by override only, to request an override please waitlist for course.

33133 A LEC 009 MW 1030-12PM 9G06 COOL Das

Applied GPU Programming

"4 CREDITS for Lec 009 and Dis 091", Prerequisites for Lec 009 and Dis 091: EECS 281, EECS 370 or Graduate Standing. Enrollment in EECS 598-009 and 598-091 will be by override only, to request an override please waitlist for course.

30048 P W LEC 010 TH 230-530PM STAMPS Johnson-Roberson, Vasudevan

Self-Drv Cars: Percp and Cntrl

"3 CREDITS for Lec 010"

30217 A LEC 011 TTH 3-430PM 1012 FXB Narayanasamy

Accelerators for AI & Health

"4 CREDIT for Lec 011 and Dis 111", Prerequisites for Lec 006 and Dis 061: 281 and 370; or graduate student in CS or ECE. Enrollment in EECS 598-11 and 598-111 will be by override only, to request an override please waitlist for course.

30245 P W LEC 012 TH 430-630PM 3150 DOW Ensafi

Censorship and Privacy Tech

"4 CREDITS for Lec 012" Prerequisites for Lec 012: EECS Grad Standing or Undergraduate with EECS 388 or permission of instructor. Enrollment in EECS 598-12 will be by override only, to request an override please waitlist for course.

U of M Schedule of Classes Page 51 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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Advised prerequisites: EECS 203, EECS 301, EECS 376, Math 217, or equivalents. Enrollment in EECS 598-13 will be by override only, to request an override please waitlist for course.

Advised prerequisites: CSE pre-candidate or Permission of instructor

Advised prerequisites: Grad standing in CSE or SI or permission of instructor

Advised prerequisites: EECS 281, EECS 370 or Graduate Standing

Advised prerequisites: Grad standing in CSE or SI. Enrollment in EECS 598-8 and 598-081 will be by override only, to request an override please waitlist for course.

Advised prerequisites: Grad standing in CSE or SI. Enrollment in EECS 598-11 and 598-111 will be by override only, to request an override please waitlist for course.
Engineering Undergraduate Edu

Engineering (ENGR)

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**Mechanics & Materials Design**

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

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**Drinking Water Quality**

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

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**Self Driving Cars & Drones**

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

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<td>23196 A R LAB 405</td>
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**Food Science & Engineering**

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

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**Self Driving Cars & Drones**

STUDENTS ELECTING DIS (412-416) WILL BE AUTO-ENROLLED IN LEC 410 AND THE CORRESPONDING LAB.

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**Biototechnology & Human Values**

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

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**Food Science & Engineering**

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

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**Food Science & Engineering**

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

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**Gaming for the Greater Good**

STUDENTS ELECTING DIS 652 OR 654 WILL BE AUTO-ENROLLED IN LEC 650 AND THE CORRESPONDING LAB. STUDENTS ELECTING DIS 656: CHOOSE ONE OF THE TWO LABS.

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**Intro to Aerospace Engineering**

STUDENTS ELECTING DIS (711-761) WILL BE AUTO-ENROLLED IN LEC 700 AND THE CORRESPONDING LAB.
Manufacturing and Society

STUDENTS ELECTING DIS 802 OR 804 WILL BE AUTO-ENROLLED IN LEC 800 AND THE CORRESPONDING LAB.

Intro Computers & Programming

STUDENT'S ELECTING LAB (010-019 & 041) WILL BE AUTO-ENROLLED IN LEC 001.

Design Your Engr Experience

Specific discussion section (101-115) will be assigned by the instructor.

Accel Intro Comp & Prog

STUDENT'S ELECTING LAB (101-104) WILL BE AUTO-ENROLLED IN LEC 100.
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Entrepreneurship (ENTR)

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Intro to Entrepreneurial Des

U of M Schedule of Classes Page 63 of 489 FA 2019 2260 09-09-2019 12:09 21610809
* Questions as to whether this course will count toward your degree or the Entrepreneurship minor should be directed to InnovateBlue or your home department.

* YOU CANNOT DIRECTLY ENROLL IN THIS LECTURE. You must pick a lab first (ENTR 390.008 - 010).

Are you:

* Designing doorknobs for a Mars colony?
* Tired of browsing crappy university web pages?
* Inventing the best app ever for the Nest or the Apple Watch?
* Have ideas and want to prototype them before the next pitch to investors?
* Wondering why you aren't going to an online college instead?

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

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

25293 P W LAB 009 T 1-4PM ARR O'Grady, Root
3D Printing/Prototyping
***Class will meet in Design Lab 1, on the first floor of the Duderstadt Center.

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

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

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

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

In this lab, you'll learn how to operate and design for 3D printing machines such as the PrintrBot Play and Form 2. You'll learn CAD using Autodesk Fusion 360 and how to integrate 3D scan data into your designs. You'll also learn how to use various Rapid Prototyping and Manufacturing (RP&M) applications such as slicers and inspection tools.

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

25294 P W LAB 010 M 230-530PM ARR O'Malley, Root
Virtual Reality
***Class will meet in ATL 2, on the third floor of the Duderstadt Center.

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

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

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

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

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

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

25320 P W LEC 011 T 6-8PM B3560 BUS Narayan
E-Commerce Entrepreneurship
* Students from ALL schools and colleges may take this course.
In this course, you'll learn how to start your own profitable business selling consumer products online. We'll also cover the potential pitfalls to stay away from and analyze other e-commerce businesses.

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

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

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

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

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

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

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

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

407 Entrepreneurship Hr 1.00
19703 P W SEM 001 F 1230-130PM STAMPS Fay
* Students from ALL schools and colleges may take this course.

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

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

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

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

408 Patent Law 1.00
19702 P RW LEC 001 T 6-8PM 1024 FXB Fidler
* Students from ALL schools and colleges may take this course.

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

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

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In this course, you'll gain an overview of intellectual property (IP) law with a focus on patent law. You'll learn the fundamentals and leave the class able to identify patentable ideas and possible infringement issues in order to create an IP strategy.

Inventors and entrepreneurs have four concerns related to patent law:
1. protecting inventions during product development
2. determining invention patentability
3. avoiding infringement
4. leveraging a patent as a business asset

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

410 Finding Your Venture 2.00
27102 P W LEC 001 TH 3-5PM 1303 EECS Hayden, McFall
* Students from ALL schools and colleges may take this course.

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

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

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In this course, you'll learn how to dramatically simplify the business creation process by radical prioritization, identifying good opportunities and learning when to walk away from a bad one, and learning that it is possible, and actually very common, to be a moderately successful non-famous entrepreneur.

It's hard to start a company, but it doesn't have to be complicated. This course dramatically improves your odds of starting a viable business by providing a framework for identifying large, attractive opportunities. Every student will leave with a viable business opportunity to pursue and a set of valuable and repeatable skills that will be an asset in any entrepreneurial setting.

411 Entr Practicum 3.00 ADVISORY
20996 P RW LEC 001 T 4-6PM A859 CHEM-TBLC Hennessy
Entrepreneurship Practicum
* Students from ALL schools and colleges may take this course.

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

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

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

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

22469 P RW LEC 002 T 6-8PM 1690 BEYSTER White
Entrepreneurship Practicum
* Students from ALL schools and colleges may take this course.

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

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

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In this specific section you'll gain the skills you need to develop a technology company. Specifically, you'll apply the scientific method and lean startup principles to designing a business that is sustainable, scalable, and repeatable.

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

23013 P RW LEC 003 W 6-8PM 110 WEISER-TBL McNaughton
Entrepreneurship Practicum
* Students from ALL schools and colleges may take this course.

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

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

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413 Entr Marketing 2.00
27103 P RW LEC 001 M 3-5PM 1018 DOW Dacko
* Students from ALL schools and colleges may take this course.

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

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

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

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

417 Entr Hr Dis Session 1.00 ADVISORY
20195 P W DIS 001 F 230-330PM ARR Gordon
* Students from ALL schools and colleges may take this course.

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

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

In this course, you'll talk 1:1 with disruptive, influential and respected entrepreneurs, venture capitalists and business leaders about their personal journey of founding, financing and managing their ventures.

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

490 Spec Topics Entr 1.00-3.00
27201 P W LEC 012 W 630-930PM 1123 LBME Tarver
Urban Entrepreneurship
* Students from ALL schools and colleges may take this course.

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

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

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

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

27211 P W LEC 014 F 9-11AM R1230 BUS Dacko
Leadership in Startups
* Students from ALL schools and colleges may take this course.

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

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

U of M Schedule of Classes Page 68 of 489
In this course, you'll learn about vision, culture, storytelling, mission, strategy development, the role of the CEO, the difference between the CIO and the CEO, communicators, hiring / firing and operations and management. You'll broaden your perspective of how to get a startup going, scaled, and funded.

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

Entrepreneurial Action & Vision

Class will meet in DC 3358 B, on the third floor of the Duderstadt Center.

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

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

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

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

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

Learning Objectives: Students will be able to: Describe the value proposition and customer segment for either their own research, favorite product, or service. Draw a value Chain Map and an Eco System Map. Complete the Revenue Model, Value Proposition, Channels, Customer Segments of the Business Model Canvas. Complete the left hand side of the Business Model Canvas. Enter concise descriptions of the Cost Structure plus Key Partnerships, Resources, and Activities. Conduct Customer Discovery interviews. Name at least five regulatory agencies, code and/or standards, and certifications. Compare two competing business models from a given market segment and determine how technology and innovation was used by a startup to displace an established business. Define a patent in their own words. Explain two major differences between each of the following: trade secret, patent, trademark, and copyright. Generate a Gantt Chart. Generate a simple budget. Generate a 30 Second Elevator Pitch. Analyze conflicts and summarize the issue, people involved, final resolution. Learn how stock options work.
Learning Objectives: Students taking this class are expected on its completion to be able to: ? Articulate the tangled relationships between four of the nine components of the Business Model Canvas; value proposition, channel, customer segment, and revenue streams. ? Capture a value chain map for a given channel to market. ? Develop an ecosystem map and communicate the fundamental change your innovation will bring to the market. ? Think strategically about the synergy and tensions between innovation capture and creation across several industry verticals. ? Cultivate an ability to tailor technology innovation towards a sustainable business model with modern day revenue stream tactics.

The course examines intellectual property (IP) strategies for new ideas and startups, including barriers to entry for competitors and infringement risk reduction. Topics include IP procurement, technology transfer, due diligence, and preparing for and avoiding litigation. Students should have their own research to apply what's learned in the class.

Students will form teams early in the course to ideate a project for improving the campus in some way. The teams will (ideally) apply their course learnings and produce a substantive product that they will report out on at the end of the course. Additionally, students will work throughout the term on a 10-20 page personal development plan, which will either be busy work or life changing in direct response to how seriously it is worked on. Weekly reflections on reading and course content will provide a regular feedback loop between instructor and student as to how course material is being received and applied. While not focusing explicitly on business practices and entrepreneurial activities, the entire course will be grounded in this field and will rely heavily on tying in the real world experiences of students and others in relation to best practices. Theories of leadership will be discussed and unpacked, with the intent of more fully understanding sources of leadership power and the positive and negative aspects of various leadership styles. At the interplay of these themes is the concept of the dynamic, optimized function of a high-performing team - the creation and maintenance of which lies at the heart of most business success.

Theories of leadership will be discussed and unpacked, with the intent of more fully understanding sources of leadership power and the positive and negative aspects of various leadership styles. At the interplay of these themes is the concept of the dynamic, optimized function of a high-performing team - the creation and maintenance of which lies at the heart of most business success.
Successful project managers and consultants possess the skills necessary to manage their teams, clients, activities, schedules, risks, communications and resources to produce desired outcomes. This course introduces the tasks and challenges fundamental to project management, the vital function of managing complex projects; and consulting, the business of giving expert advice.

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

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

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

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

*This course was previously offered as ENTR 599.030 Special Topics: Project Management and Consulting.

Successful project managers and consultants possess the skills necessary to manage their teams, clients, activities, schedules, risks, communications and resources to produce desired outcomes. This course introduces the tasks and challenges fundamental to project management, the vital function of managing complex projects; and consulting, the business of giving expert advice.

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

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

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

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

*This course was previously offered as ENTR 599.020 Special Topics: Project Management and Consulting.

In this course, you will come to recognize the unique contribution designers provide as one of several integral components necessary for a successful venture or team. Because creativity and design intersect the product development process at many junctures, you will gain valuable insights making you an effective contributor to an existing venture, startup idea, and future projects. Whether you have a technical or non-technical background, becoming more knowledgeable about the complexities related to the product design process will help you become a more collaborative teammate, leader, follower and problem solver.

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

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

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

In this course, you will come to recognize the unique contribution designers provide as one of several integral components necessary for a successful venture or team. Because creativity and design intersect the product development process at many junctures, you will gain valuable insights making you an effective contributor to an existing venture, startup idea, and future projects. Whether you have a technical or non-technical background, becoming more knowledgeable about the complexities related to the product design process will help you become a more collaborative teammate, leader, follower and problem solver.

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

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

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

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

Industrial And Operations Engineering (IOE)

201 Econ Dec Making 2.00 ENFORCED
10486 P R LEC 001 MW 830-1030AM 1610 IOE
IOE 201 MEETS FIRST HALF OF TERM.
24729 P R LEC 002 MW 830-1030AM 3433 EECS

202 Operations Modeling 2.00 ENFORCED
10487 P R LEC 001 MW 830-1030AM 1610 IOE
IOE 202 MEETS SECOND HALF OF TERM.
24730 P R LEC 002 MW 830-1030AM 3433 EECS

265 Prob&Stat Engr 3.00 ENFORCED
10488 P R LEC 001 TTH 1030-12PM 1610 IOE
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A LAB.

310 Intro to Optim Meth 3.00 ENFORCED
10491 P R LEC 001 TTH 9-1030AM 1610 IOE

333 Ergonomics 3.00 ADVISORY
10492 P R LAB 001 M 12-2PM G699 IOE
10493 P R LAB 002 M 2-4PM G699 IOE

366 Linear Stat Models 3.00 ENFORCED
10498 P R LEC 001 TTH 3-430PM 1610 IOE

413 Optim Mod Hlth Care 3.00 ADVISORY
20907 P RW LEC 001 MW 3-430PM 1123 LBME

416 Queueing Systems 3.00 ADVISORY, ENFORCED
30633 P R LEC 001 MW 330-530PM 1012 FXB

421 Work Organizations 3.00 ADVISORY, ENFORCED
10506 P RW LEC 001 MW 12-130PM 3150 DOW

422 Entrepreneurship 3.00 ADVISORY
18446 P RW LEC 001 TTH 3-430PM 3150 DOW

424 Practicum Prod&Srv 3.00 ADVISORY, ENFORCED
10507 P RW LEC 001 TH 6-8PM 1610 IOE

425 Lean Mfg&Services 2.00 ADVISORY, ENFORCED
10508 P RW LEC 001 MW 5-7PM 1200 EECS

430 Global Cult Sys Engr 3.00 ENFORCED
22314 P R LEC 001 MW 130-3PM 1200 EECS

437 Automotive Human Fac 3.00 ADVISORY
18645 P W LEC 001 MW 12-130PM 1680 IOE

440 Operations Anlys&Mgt 3.00 ENFORCED
18537 P RW LEC 001 TTH 9-1030AM 2246 CSRB

447 Facility Planning 3.00 ADVISORY, ENFORCED
20910 P RW LEC 001 MW 130-3PM 1680 IOE

452 Corporate Finance 3.00 ADVISORY, ENFORCED
16591 P RW LEC 001 MW 3-430PM 1670 BEYSTER

461 Quality Engin Prin 3.00 ADVISORY, ENFORCED
16576 P RW LEC 001 MW 1030-12PM 165 CHYRS

463 Measure&Des of Work 3.00 ADVISORY
10510 P W LEC 001 MW 1030-12PM 1680 IOE

466 Stat Quality Control 3.00 ADVISORY
10511 P RW LEC 001 TTH 130-3PM 1005 DOW

474 Simulation 4.00 ADVISORY, ENFORCED

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Integrative Systems and Design

**Automotive Engineering Program (AUTO)**

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Graduate students should enroll in AUTO 533 and Undergraduates should enroll in ME433.

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

**Energy Systems Engineering Program (ESENG)**

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**Integrative Systems and Design (ISD)**

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

**Robotics and Autonomous Vehicle Engineering (RAV)**

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

Verification and Validation

Data collection and analysis techniques for developing and verifying system design requirements are studied: identifying, quantifying and prioritizing stakeholder objectives, minimizing test procedures cost, validation vs. verification, and limited vs. mass production strategies. Course work includes a term project. It is helpful to have familiarity with the normal distribution, the binomial distribution, the concept of probability and the concept of sampling from a probability distribution.
## Program In Manufacturing

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**U of M Schedule of Classes**  Page 75 of 489  
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Materials Science & Engineering

Materials Science Engineering (MATSCIE)

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10577 P RW DIS 101 TH 1130-1230PM 1003 EECs Luce
10578 P RW DIS 102 TH 130-230PM 103 TH 1571 GGBL Snyder
27345 P RW DIS 104 TH 1130-1230PM 1123 LBME Repetto
29853 P RW DIS 105 TH 130-230PM 107 GFL Steinke
32557 P R LEC 200 MW 1130-130PM 224 GFL Vaylsove

This special section of MSE 220 is ONLY FOR FIRST AND SECOND YEAR STUDENTS. It will be a team based and project based version of the class where the first introduction to the material is NOT lecture, but rather annotated reading. Class time will consist of active learning activities. There will be three group projects in this class.

Students will be required to purchase an electronic textbook via the Canvas site that will be live in August. Students will also be required to purchase a subscription to Learning Catalytics ($12). There are no other fees for the course. Homework is graded for effort and honesty - not accuracy. Quizzes are graded by averaging a closed book, closed notes, individual effort, with an open book, open internet, group effort. You will be rewarded for hard work and honesty on homework and exams without the angst of 100% summative assessment. Do not purchase the book at this time. More information will be available on the following website:

https://java.engin.umich.edu/220F19/

250 Prin Engr Matl 4.00 ENFORCED
10580 A R LEC 100 MWF 930-1030AM 1571 GGBL Wynarsky

Structure, properties, and processing relationships in engineering materials with applications to biomaterials.

350 Structures of Matls 4.00 ENFORCED
10582 P RW LEC 001 MW 10-1130AM 133 CHRYS Qi

360 Materials Lab I 3.00 ADVISORY
10583 S R LEC 001 M 230-330PM 224 GFL Chambers

Labs for MSE 360 are held in the Van Vlack Undergraduate Lab, second floor of the H.H. Dow building.

410 Biomaterials 3.00 ENFORCED
14504 PDR LEC 001 MW 11:30-1230PM 1014 DOW Mehta, Crochran, Moy

For permission to register, contact Maria Steele at msteele@umich.edu.

412 Polymeric Materials 3.00 ADVISORY
10587 P R LEC 001 TTH 830-10AM 1017 DOW Love

420 Mech Behavior Matrls 3.00 ADVISORY, ENFORCED
14677 P R LEC 001 TTH 230-4PM 1010 DOW Sevener

445 Comp Approaches MSE 3.00 ADVISORY, ENFORCED
32387 P R LEC 001 W 12-14PM ARR Thornton
454 Comp Approaches MSE 3.00 ADVISORY, ENFORCED
32387 P R LEC 001 F 1230-2PM ARR Rieland

This class will be held in the Van Vlack Undergraduate Lab, second floor of the H.H. Dow building.

470 Phys Mat 3.00 ADVISORY, ENFORCED
32140 P R LEC 001 TTH 10-1130AM 1032 FXB Allison

489 Matts Proc Design 3.00 ADVISORY, ENFORCED
16515 P RW LEC 001 MW 230-4PM 2166 DOW Temeche

490 Research Problems 1.00-3.00 ADVISORY, ENFORCED
16515 P RW LEC 001 MW 230-4PM 2166 DOW Temeche

493 Special Topics 3.00 ADVISORY
32196 P W LEC 003 TTH 1230-2PM 1008 EECs Shtein

The Greatest Materials and Inventions Across Civilizations:

Stone, Ceramic, Bronze, Iron, Gunpowder, Concrete, Steel, Silicon? Materials that defined entire epochs. What do we know about humans? mastery of these materials? How did they change life? Why did they persist? What replaced them and why? Spears, Textiles, Canoes, Alphabet, Printing Presses, Steam Engine, Intern Combustion Engine, Pneumatic Tire, Pencil, Telegraph, Electric Lights, Radio, Diode, Transistor, Fiber-optics, Corn Syrup, Syringe, Rockets, iPhone? Devices and constructs that leveraged materials and processes of the day to enable leaps in human capability. What problems were their inventors attempting to solve? What new businesses did they enable? What new problems did they create for humans?

517 Adv Function Poly 3.00 ENFORCED
20147 P RW LEC 001 TTH 430-6PM 2166 DOW Kim

532 Adv Therm Matrls 3.00 ADVISORY
The Greatest Materials and Inventions Across Civilizations:

Stone, Ceramic, Bronze, Iron, Gunpowder, Concrete, Steel, Silicon? Materials that defined entire epochs. What do we know about humans? mastery of these materials? How did they change life? Why did they persist? What replaced them and why? Spears, Textiles, Canoes, Alphabet, Printing Press, Steam Engine, Internal Combustion Engine, Pneumatic Tire, Pencil, Telegraph, Electric Lights, Radio, Diode, Transistor, Fiber-optics, Corn Syrup, Syringe, Rockets, iPhone? Devices and constructs that leveraged materials and processes of the day to enable leaps in human capability. What problems were their inventors attempting to solve? What new businesses did they enable? What new problems did they create for humans?

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Lab for MSE 562 will be held in the MC@ Center of NCRC North Campus Research Center Building 22

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### Mech Eng & Applied Mech Dept

#### Mechanical Engineering (MECHENG)

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**Notes:**
- Students are auto-enrolled in the lecture when they elect a lab. Students are not permitted to take this course pass/fail.
- Students are auto-enrolled in the lecture when they elect a lab. Students are not permitted to take this course pass/fail.
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ENROLLMENT IN A DISCUSSION SECTION WILL AUTO-ENROLL YOU IN THE LECTURE AND RECITATION. PROJECTS VARY FOR DISCUSSION SECTIONS. ONCE CLASSES BEGIN, STUDENTS WILL DROP/ADD TO THE APPROPRIATE PROJECT-RELATED SECTION. MUST BE DONE BY 3RD WEEK OF TERM. STUDENTS ARE NOT PERMITTED TO TAKE THIS COURSE PASS/FAIL.

U of M Schedule of Classes Page 80 of 489
<table>
<thead>
<tr>
<th>CAT#</th>
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STUDENTS MUST ALSO SUBMIT A PROPOSAL AND REPORT ONLINE. ADDITIONAL INFORMATION IS AVAILABLE AT THE FOLLOWING LINK: http://me.engin.umich.edu/academics/courses/research

This class includes a site visit to the LIFT (metals processing) Manufacturing USA institute in Detroit. Please see here for the class syllabus: http://remade.engin.umich.edu/Publications/ME599-F19-syllabus%20v2.pdf

Accommodations can be made for those students also wishing to take ISD 528 Advanced Design for Manufacturing that finishes at 1:20pm. Email the instructor directly (drcooper@umich.edu) if this scenario applies to you.

Prof Skills Grad Stu Success

This course is open to 1st year ME Ph.D. students and all ME Master's students, though if needed registration
priority will be given to 1st year ME Ph.D. students.

Please note that the 1 credit for this course cannot count towards ME Master's or Ph.D. degree requirements.

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Naval Arch & Marine Engr Dept
Naval Architecture And Marine Engineering (NAVARCH)

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

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Contact the department at noonr@umich.edu if you encounter any issues when registering for the class.

Class will meet in Room 236 NAME (Rosenblatt Room)

U of M Schedule of Classes Page 83 of 489 FA 2019 2260 09-09-2019 12:09 21610809
Nuclear Engr & Radiological Sci
Nuclear Engineering And Radiological Sciences (NERS)

211 Intro to Nucl Eng  4.00
14567 S W LEC 001 MW  1030-12PM  1005 DOW  Allen
14568 P DIS 201 F  9-10AM  1303 EECS  Allen
21528 P DIS 202 F  130-230PM  1311 EECS  Allen

299 Directed Study NERS  1.00-3.00
I IND +  ARR ARR

311 N E & Rad Sci I  3.00 ADVISORY
10603 P LEC 001 MWF  12-1PM  1121 LBME  Bielajew

320 Problems in NERS  4.00 ADVISORY
22486 P W LEC 001 TTH  1130-1PM  1005 EECS  Kiedrowski

320 Problems in NERS  4.00 ADVISORY
22486 P W LEC 001 TTH  1030-1130AM  1311 EECS  Allen

421 Nucl Engr Materials  3.00 ADVISORY
17046 P LEC 001 MW  1030-12PM  3427 EECS  Martin

441 Nucl React Theo I  4.00 ADVISORY
10604 P LEC 001 MWF  12-1PM  3427 EECS  Martin

444 Fund Heat/Mass Trans  3.00 ADVISORY
23170 P RW LEC 001 TTH  12-130PM  1940 COOL  Manera

462 React Safety Analys  3.00 ADVISORY
10605 P LEC 001 TTH  1030-12PM  1940 COOL  Yang

471 Intr Plasmas-Fusion  3.00 ADVISORY
10606 P LEC 001 TTH  130-3PM  1940 COOL  McBride

484 RHE Fundamentals  4.00 ADVISORY
10607 P LEC 001 TTH  9-1030AM  1940 COOL  Noey, Kearfott

490 Special Topics  1.00
20995 P R LEC 001 T  4-5PM  9006 COOL  Yang

Senior Design
499 Res Nur Eng/Rad Sci  1.00-3.00 ADVISORY, ENFORCED
IR IND +  ARR ARR

515 Nuclear Measure Lab  4.00 ADVISORY
10609 S W LEC 001 TTH  1230-230PM  2918 COOL  Jovanovic

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

518 Adv Rad Meas&Imag  2.00 ADVISORY
23168 P LEC 001 T  3-5PM  2918 COOL  Wehe

521 Rad Mat Sci I  3.00 ADVISORY
17540 P LEC 001 TTH  10-1130AM  1025 GGBL  Atzmon

531 Nucl Waste Mgmt  3.00 ADVISORY
31835 P LEC 001 MW  1030-12PM  1940 COOL  Wang

532 Nuclear Safeguards  3.00 ENFORCED
31837 P RW LEC 001 TTH  330-430PM  2918 COOL  Pozzi

535 Det Nucl Non-prolif  4.00 ADVISORY
21897 S LEC 001 MW  1230-2PM  1940 COOL  Clarke

535 Det Nucl Non-prolif  4.00 ADVISORY
21897 S LEC 001 F  1230-130PM  1940 COOL  Clarke

535 Det Nucl Non-prolif  4.00 ADVISORY
21898 P LAB 002 ARR ARR  Jovanovic

543 Nucl React Theo II  3.00 ADVISORY
17539 P LEC 001 TTH  4-530PM  1012 EECS  Kiedrowski

546 Ther Flu Nuc Reactor  3.00 ADVISORY
26964 P LEC 001 MW  4-530PM  1940 COOL  Sun

571 Inter Plas-Phys I  3.00 ADVISORY
10611 P LEC 001 TTH  330-5PM  1940 COOL  Lau

573 Plasma Engr  3.00 ADVISORY
31839 P LEC 001 MW  1030-12PM  2918 COOL  Foster

576 Charg Par Accel-Beams  3.00 ADVISORY
31842 P LEC 001 TTH  1030-12PM  2918 COOL  Gilgenbach

577 Plasma Spectroscopy  3.00 ADVISORY
31843 P LEC 001 MW  12-13PM  2918 COOL  Krushelnick

578 Proc Plasma  3.00 ADVISORY
32034 P W LEC 001 MW  9-1030AM  1008 EECS  Kushner

579 Phys Diagnos Radiol  3.00 ADVISORY
31845 P LEC 001 MTWTHF  12-130PM  1940 COOL  Goodsitt

582 Med Rad Hth Eng  3.00 ENFORCED
31845 P LEC 001 TTH  5-630PM  2918 COOL  Kearfott

588 Rad Safe&Md Phy Prac  1.00-12.00 ADVISORY
IND +  ARR ARR

590 Special Topics II  3.00-4.00 ADVISORY
22321 P LAB 001 MW  230-4PM  2918 COOL  Petrov, Manera

Adv Therm-Hydraul Measure Lab
27347 P W LEC 004 MW  4-530PM  1940 COOL  Kochunas

U of M Schedule of Classes  Page 84  of  489  FA 2019 2260 09-09-2019 12:09 21610809
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Technical Communication

Technical Communication (TCHNCLCM)

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

300  Tech Comm for EE&CE  1.00

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U of M Schedule of Classes Page 86 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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Atm, Oceanic And Space Science
Climate and Meteorology (CLIMATE)
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### Intro Geology Lab

To enroll in the Intro Geology Lab, students must also enroll in EARTH/ENVIRON 119.  Students are strongly encouraged to enroll in both EARTH/ENVIRON 119 and 118.

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LAB & DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9.
STUDENTS WHO REGISTER IN SECTION 011 OR 012 WILL AUTOMATICALLY BE ENROLLED IN DISCUSSION SECTION 010. THE FIRST
HALF OF THE TERM, LAB MEETINGS WILL TAKE PLACE AT THE BOT. GARDENS. THE BUS TO BOT. GARDEN LEAVES FROM FRONT OF
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LAB & DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9.

19171   P W LAB 021 T 8-12PM 3130 USB Bishop, Carpenter
20706   P W LAB 022 T 1-5PM 3130 USB Louria, Carpenter

STUDENTS WHO REGISTER IN SECTION 021 OR 022 WILL AUTOMATICALLY BE ENROLLED IN DISCUSSION SECTION 020. THE FIRST
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395 Natural Resource Law
26803 P WLEC 001 MW 10-1130AM 2062 PALM Coyle

12 seats reserved for PtE Majors/Minors until 4/7/17. Cross-listed with Comm 413.001.

421 Restoration Ecology
32580 S WLEC 001 MW 230-4PM 2218 SEB
32581 P W DIS 002 W 4-6PM 2346 SEB

422 Biol of Fishes
28398 P WLEC 001 TTH 10-1130AM 1028 DANA

423 Bio Fish Lab
28399 P W LAB 001 W 1028 DANA

424 Stream Restoration
32808 S LEC 001 MW 1030-1130AM 136 EWRE
32833 P LAB 002 F G565 DANA

426 Intro Phys Oceanogr
28048 P RWLEC 001 TTH 10-1130AM 2520 NUB

430 Soil Ecology
23849 A WLEC 001 MW 10-11AM 1028 DANA
23850 P W LAB 002 M 1-5PM 2556 DANA
23851 P W LAB 003 T 1-5PM 2556 DANA

433 Ornithology
28068 S WLEC 001 TTH 1-230PM 1100 BS Bl
28070 P W LAB 002 W 9-12PM 1100 BS

436 Woody Plants
16129 A WLEC 001 TTH 1-6PM 1040 DANA
16130 P W LAB 003 T 1-6PM 2520 DANA
16131 P W LAB 004 W 1-6PM 2520 DANA
19815 P RW LAB 005 TH 1-6PM 2520 DANA

442 Earth Surface&Soils
26751 A RLEC 001 MW 2520 DANA
26907 P RW LAB 002 M 3-5PM 3536 DANA
27193 P RW LAB 003 T 1-3PM 5501 DANA

462 Envir Soc Sci Topics
22966 PI WLEC 001 TTH 1-230PM 1024 DANA
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Instructor: Hall

Instructor: Alofs, Lopez-Fernandez

Instructor: Bergen

Instructor: Bergen, Barnett

Instructor: Bergen, Fullem

Instructor: Bergen, Barnett

Instructor: Marshall

Instructor: Finkel

Instructor: Cruz Da Silva Castro

Instructor: Finkel

Instructor: 1.00-6.00 ADVISORY
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Prerequisites - By permission of instructor. Graduate or junior/senior standing; one full-semester course in Remote Sensing and/or GIS from the following: EAS 541, EAS 531, EARTH 408, URP 521 or equivalent.
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**Incoming SEAS EPP students will be given permission to enroll in this course.**
Please note that additional seats will open up on June 1st.
This is a graduate course. Seniors need permission of instructor to enroll.

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U of M Schedule of Classes Page 98 of 489 FA 2019 2260 09-09-2019 12:09 21610809
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Narratives around combating human trafficking are narrowly construed, with white cisgender girls typically portrayed as the victims of heteronormative sex trafficking. Such narratives, and interventions meant to aid trafficking victims, overlook LGBTQ+ communities and fail to address their needs. In this class, students will work with stakeholders and incorporate insights from law, social work, public policy, health sciences, and other fields to develop innovative solutions.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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This class is reserved for PhD students in SNRE.

PhD Seminar

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Information

School of Information

Information (SI)

**106 Prog, Info & People**

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**206 Data-Oriented Prog**

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**260 Intelligent Machines**

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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.

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

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FIRST DAY OF CLASS.
33479 P RW DIS 103 T 3-4PM G115 AH Van Lent, Lee
This class will be meeting in MH3437.

IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE INSTRUCTOR MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE FIRST DAY OF CLASS.
36835 P RW DIS 104 T 3-4PM ARR Van Lent, Chen
This class will be meeting in NQ2185.

IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE INSTRUCTOR MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE FIRST DAY OF CLASS.
36836 P RW DIS 105 W 6-7PM ARR Van Lent, Lee
This class will be meeting in NQ2245.

IT IS CRITICAL THAT STUDENTS ATTEND CLASSES FROM THE BEGINNING OF THE TERM. EVEN THOUGH STUDENTS MAY BE REGISTERED OFFICIALLY FOR A COURSE, THE INSTRUCTOR MAY GIVE AWAY PLACES IN A COURSE IF STUDENTS DO NOT ATTEND THE FIRST DAY OF CLASS.
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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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This class will be meeting in MH1401.

612  Pervasv Interact Des  3.00  ADVISORY, ENFORCED
   24326  P RW LEC 001  M  530-830PM  2245 NQ  Brenton, Jin
616  Adv Graphic Design  3.00  ADVISORY, ENFORCED
   24017  P RW LEC 001  W  1-4PM  1570 NUB  Besprosvany, Gedin
618  Data Man & Analysis  3.00  ENFORCED
   22179  P RW LEC 001  T  4-7PM  2255 NQ  Budak, Henry

This class will be meeting in NQ2255.

634  Appl Pltfrm Config  1.50
   19709  P RW DIS 002  W  10-1130AM  2185 NQ  Hess
635  CMS & Web Frameworks  1.50  ADVISORY
   19697  P RW LEC 001  W  10-1130AM  2185 NQ  Hess

647  Info Resources&Srv  3.00
   10620  P RW LEC 001  T  4-7PM  ARR  Budak, Henry

648  Eval Methods in HI  3.00  ADVISORY
   25380  P RW LEC 101  T  4-7PM  ARR  Budak, Henry

649  Info Visualization  3.00  ADVISORY, ENFORCED

It is CRITICAL that students ATTEND CLASSES from the BEGINNING OF THE TERM. Even though students may be officially registered for this course, THE INSTRUCTOR MAY DIS-ENROLL/GIVE AWAY officially registered seats in this course if the student DOES NOT ATTEND the first day of class. Attendance will be recorded on the first day of class.

20023  A RW LEC 001  T  1-4PM  2255 NQ  Adar, He

This class will be meeting in NQ2245.

650  Informatn Retrieval  3.00  ENFORCED
   27048  P RW LEC 001  W  430-730PM  1020 SPH2  Mei
   33677  P RW LEC 101  W  430-730PM  ARR  Mei

651  Electronic Commerce  3.00
   32568  P RW LEC 001  MW  9-1030AM  2245 NQ  Schoenebeck

652  Database App Design  3.00  ENFORCED
   19192  A RW LEC 001  F  1-3PM  2255 NQ  Severance, Gomatam
   25935  P RW DIS 002  F  1-3PM  1014 BMT  Platt
   32198  P RW DIS 003  TH  4-530PM  1265 NQ  Severance, Gomatam
   36323  P RW DIS 004  TH  1-230PM  1265 NQ  Severance, Gomatam
   36324  P RW DIS 005  M  4-530PM  1265 NQ  Severance, Platt
   33685  A RW LEC 101  F  1-3PM  ARR  Severance

This class will be meeting in NQ2255.

664  Org of Inf Resources  3.00
   14451  P RW LEC 001  TH  530-830PM  2255 NQ  Thomer, Lenard

666  Dev Mobile Exp  3.00  ENFORCED
   29415  P RW LEC 001  F  830-1130AM  1152 SPH2  Newman

670  Appld Machine Learing  3.00
   29657  P RW LEC 001  M  530-830PM  2255 NQ  Schoenebeck, Ma
   33690  P RW LEC 101  M  530-830PM  ARR  Schoenebeck, Ma

This class will be meeting in NQ2255.

671  Data Mining  3.00  ADVISORY, ENFORCED
   23228  P RW SEM 001  M  1-4PM  2255 NQ  Dhillon, Yu
   33690  P RW SEM 101  M  1-4PM  ARR  Dhillon, Yu
This class will be meeting in NQ2255.

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<td>32618</td>
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School of Information Applied Data Science (SIADS)

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## Kinesiology

### School Of Kinesiology

#### Applied Exercise Science (AES)

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#### Athletic Training (AT)

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<td>210</td>
<td>Clin Eval-UE AT Inj</td>
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Concurrent enrollment in AT 350 is required.
AT 352 will meet in the South Campus Performance Center Athletic Training Room. For questions, please contact Professor Shinavier @ shinawi@umich.edu.

17451 P RW LAB 001 M 8-10AM ARR Shinavier Jr 3.00 ADVISORY
Concurrent enrollment in AT 352 is required.

360 Rehab Athlet Injuries
13755 P RW LEC 001 TTH 830-10AM 3050 CCRB Czajka
Concurrent enrollment in AT 362 is required.

362 Rehab Athlet Inj Lab
17452 P RW LAB 001 F 10-12PM 3040 CCRB Memmini

375 Path Allied Hit Prof
23924 PIRW LEC 001 MW 10-11AM 3050 CCRB Czajka

400 Clin Exp Ath Train E
16150 PIRW LEC 001 M 7-9PM ARR Czajka
F19- this course will meet in USB 2244.

402 Teach Exp
16089 PI LAB 001 ARR ARR 1.00-3.00 ENFORCED
403 Internship in AT
25519 PI LAB 002 ARR ARR

410 AT Admin
16983 P RW LEC 001 MW 1130-1PM 3040 CCRB Lepley

413 SpecialTopics MVS AT
23931 P RW LEC 001 M 230-530PM 3733 CCRB Robinson
Applied Child Development
F19- section is closed.

35228 P RW LEC 002 TTH 1130-1PM G444A MH Clarke
F19- section is closed.

26547 P LEC 004 TTH 1-230PM ARR Gross
Motion Capture
F19- Closed to enrollment. Undergraduate students, please register for MOVESCI 434. Thank you.

488 Ind Study AT
25526 P LEC 006 ARR ARR 1.00-2.00 ADVISORY

Kinesiology (KINESLGY)

302 Kines Study Abroad
19770 PI W LEC 601 ARR ARR 1.00-18.00 Barton
Australia
University of Queensland in Australia
19771 PI W LEC 602 ARR ARR Barton
England
Loughborough University in England
19772 PI W LEC 603 ARR ARR Barton
Limerick, Ireland
University of Limerick in Ireland
19773 PI W LEC 604 ARR ARR Barton
Dublin, Ireland
University College Dublin in Ireland
24373 PI W LEC 605 ARR ARR Rosentraub
Israel
Israel (Dr. Rosentraub)
26343 PI LEC 606 ARR ARR Grant Long, Barton, Babiak
Western Europe
Western Europe (Dr. Grant Long, Dr. Babiak)

402 Teach Exper
25525 P LEC 006 ARR ARR 1.00-3.00 ADVISORY

413 SpecialTopics MVS AT
23930 P RW LEC 001 M 230-530PM 3733 CCRB Robinson
Applied Child Development
35227 P RW LEC 002 TTH 1130-1PM G444A MH Clarke
F19- section is closed.

26546 P RW LEC 004 TTH 1-230PM ARR Gross
Motion Capture
Note: Dr. Gross will contact students with the course location, prior to the start of classes.
Advisory Prereq: MOVESCI 330; In this course you will use motion capture to collect and analyze biomechanical data in a group project. The course format is blended - online assignments before class will prepare you for hands-on learning activities during class.

25525 P LEC 006 ARR ARR

424 Aging&Motor Perfmcn
27007 P R LEC 001 ARR ARR
F17- this course is cancelled.

425 PA & Ped Disability
22997 P R LEC 001 TTH 530-7PM 3040 CCRB Ulrich
29224 P R LEC 002 TTH 830-10AM 3735 CCRB Ulrich

429 Lab Mtr Cnt Dev
13604 PI LAB 001 ARR ARR 1.00-3.00 ADVISORY
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438 Musculoskeletal Imag
3.00 ENFORCED

28624 P R LEC 001 ARR ARR

439 Lab Biomechanic
1.00-3.00 ADVISORY

17969 PI LAB 001 ARR ARR
14458 PI LAB 002 ARR ARR
18025 PI LAB 004 ARR ARR
19090 PI LAB 005 ARR ARR
22529 PI LAB 006 ARR ARR
23772 PI LAB 007 ARR ARR
25526 PI LAB 008 ARR ARR
25756 PI LAB 009 ARR ARR
27621 PI LAB 010 ARR ARR

448 CV Ex Phys
3.00 ADVISORY, ENFORCED

27008 P R LEC 001 ARR ARR

449 Lab Exer Phys
1.00-3.00 ADVISORY

13606 PI LAB 001 ARR ARR
13607 PI LAB 002 ARR ARR
13608 PI LAB 003 ARR ARR
14447 PI LAB 004 ARR ARR
17186 PI LAB 005 ARR ARR
21317 PI LAB 006 ARR ARR
22780 PI LAB 007 ARR ARR

505 Disability Studies
1.00-3.00 ADVISORY

21381 PI W SEM 001 M 1-4PM G463 MH Yergeau

513 Experimental Course
3.00 ADVISORY

29591 P RW LEC 001 M 1-4PM G437 MH Armstrong

581 Service - Hith Prof
2.00

29010 PD REC 001 W 3-5PM 1552 NUB Farris

615 Phil Sci Res Kines
3.00

29681 P RW LEC 001 F 12-3PM 3040 CCRB Wang

698 Thesis Research
1.00-6.00 ADVISORY

680 Practicum Kines
1.00-6.00 ADVISORY

682 Ind Read in Kin
1.00-3.00 ADVISORY

684 Ind Res in Kin
1.00-6.00 ADVISORY

685 Res Rotation in Kin
3.00-6.00 ADVISORY
Movement Science (MOVESCI)

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

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

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<td>PI DIS 001 ARR ARR Ferrez</td>
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<td>CONTACT UROP OFFICE 647-2768.</td>
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<td>Override needed to enroll (<a href="mailto:mergos@umich.edu">mergos@umich.edu</a>). Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004.</td>
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<td>Override needed to enroll (<a href="mailto:mergos@umich.edu">mergos@umich.edu</a>). Students must concurrently enroll in MOVESCI 362 sections 001 AND 002, 003 or 004. The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.</td>
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Students must concurrently enroll in MOVESCI 362 sections 001 AND (002, 003 or 004). The professor will hold this course in a lab space in CCRB and will contact the class roster with the details.

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

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

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<td>Comm Serv Learn</td>
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**Advisory Prereq:** MOVESCI 330; In this course you will use motion capture to collect and analyze biomechanical data in a group project. The course format is blended - online assignments before class will prepare you for hands-on learning activities during class.
Physical Education (PHYSED)

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

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

140 Beginning Swim 1.00
13576 PD W LAB 001 MW 7-8PM ARR Winkelseth

Class will be held in the CCRB Margaret Bell Pool.

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

141 Begin Swim II 1.00
13578 PD W LAB 001 TTH 7-8PM ARR Winkelseth

Class will be held in the CCRB Margaret Bell Pool.

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

142 Intermediate Swim 1.00
13577 PD W LAB 001 MW 8-9PM ARR Winkelseth

Class will be held in the CCRB Margaret Bell Pool.

Students must register through the Kinesiology Community Programs (KCP) website (kines.umich.edu/community-programs) or in Room 3064 CCRB and request an override. To drop/request override, contact kebwink@umich.edu. Intermediate 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.
This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002. Students do not need to call or email to check their status. First day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status. If students do not receive an override before the first day of class, they are welcome to attend the course. Students are not issued until post-orientation. Students will receive an email when and if they are issued an override.

Because Kinesiology holds SM 100 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation.

This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 013.

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

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

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

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.
Because Kinesiology holds SM 101 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 003.

23130 P W LEC 013 MWF 11-12PM 3741 CCRB LaRoche

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

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 004.

23131 P W LEC 014 MWF 12-1PM 3741 CCRB LaRoche

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

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 005.

111 Iss in Sport&Fitness 3.00

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

23132 P LEC 016 ARR ARR
26799 P LEC 017 ARR ARR

F17- this section has been cancelled.

13592 P RW LEC 001 MW 1130-1PM 1100 OBL Basten

This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 013.

Because Kinesiology holds SM 111 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.

13593 P LEC 002 ARR ARR
13594 P RW LEC 003 MW 3-430PM 1100 OBL Basten

Because Kinesiology holds SM 111 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002.

13595 P RW LEC 001 TTH 1-230PM 3735 CCRB George

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

Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

This section is held for Kinesiology students. Non-Kinesiology students should wait list under section 012.

26395 P RW LEC 002 MW 230-4PM 3735 CCRB George

Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

29197 P W LEC 011 TTH 1-230PM 3735 CCRB George
This is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.

Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

29198 P W LEC 012 MW 230-4PM 3735 CCRB George

This is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002.

Because Kinesiology holds SM 203 seats for Kinesiology summer orientation students, overrides for non-Kinesiology students are not issued until post-orientation. Students will receive an email when and if they are issued an override. If students do not receive an override before the first day of class, they are welcome to attend the first day of class and see if the instructor has seats available. As long as students stay on the waitlist, they do not need to call or email to check their status.

217 Business Comm

19604 P RW LEC 001 MW 10-1130AM 3100 OBL Donahue

Non-Kinesiology students should wait list under section 011.

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

23112 P RW LEC 004 TTH 1-230PM 3100 OBL Donahue

This section is held for Kinesiology students only. Non-Kinesiology students should wait list under section 013.

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

23113 P W LEC 014 TTH 1-230PM 3100 OBL Donahue

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 002.

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

19605 P LEC 002 A 20060 P RW LEC 003 MW 830-10AM 3741 CCRB Phelan

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

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

20061 P W LEC 011 MW 10-1130AM 3100 OBL Donahue

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 001.

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

20062 P LEC 012 A 20063 P W LEC 013 MW 830-10AM 3741 CCRB Phelan

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 003.

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

23113 P W LEC 014 TTH 1-230PM 3100 OBL Donahue

This section is intended as a waitlist for non-Kinesiology students who wish to enroll in section 004.

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

241 Sports Econ&Pol

28585 P RW LEC 001 MW 1130-1PM AUD D AH Fort

246 Prin of Marketing

29216 P RW LEC 001 TTH 1130-1PM 3735 CCRB Basten

28717 P RW LEC 002 TTH 10-1130AM 3735 CCRB Phelan

249 Research Methods

22160 A W LEC 001 TTH 830-10AM 2100 OBL Park

Advisory Prerequisite: STATS 250

22161 P RW LAB 002 M 9-10AM 3100 OBL Park

Advisory Prerequisite: STATS 250

22162 P RW LAB 003 M 1-2PM 3100 OBL Pinheiro

Advisory Prerequisite: STATS 250

22163 P RW LAB 004 F 1-2PM 3100 OBL Yang
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Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

Economics of College Sport

This course is intended to prepare SM students to conduct their job search.

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

Social Media Marketing in Sport

This course takes an in-depth approach to discuss various facets and challenges of leveraging social media to connect with consumers and to leverage marketing efforts. This course will be taught by Professor Ron Wade, a former Director of Marketing of the Detroit Tigers. He was responsible for developing and execution of advertising campaign themes and branding for the Tigers over the past 10 years.

Business Development in Sports

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

Sport Real Estate

Advisory Prereq: SM 341 (strongly advised)
Students enrolled in more than five upper division SM courses will be disenrolled from one of the excess courses.

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<th>Course Title</th>
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## LSA Residential College

### College of L S & A Residential College

#### Fine Arts (RCARTS)

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#### Core Courses (RCCORE)

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Crossing the Divide
- Class is reserved for incoming Residential College students only.
- 28452 PD SEM 002 WM 4-530PM Crasnow

Representing Islam
- Class is reserved for incoming Residential College students only.
- 22124 PDR SEM 003 TTH 2-4PM Evans

The Sci of Creativity & Arts
- Class is reserved for incoming Residential College students only.
- 22899 PDR SEM 004 MW 230-4PM Goertz

The Art of Walking
- Class is reserved for incoming Residential College students only.
- 22127 PDR SEM 005 MW 230-4PM Lynch

Observing the World
- Class is reserved for incoming Residential College students only.
- 28454 PD SEM 008 WM 2-4PM Myers

Murder, Mystery, Persuasion
- Class is reserved for incoming Residential College students only.
- 15385 PDR SEM 007 MW 4-530PM Messer

New Ways of Writing about Place
- Class is reserved for incoming Residential College students only.

Mothers and Daughters
- Class is reserved for incoming Residential College students only.
- 22126 PDR SEM 009 TTH 230-4PM Goltz-Taylor

Revealing Meaning in Music
- Class is reserved for incoming Residential College students only.
- 18320 PDR SEM 010 WM 4-530PM Rosegrant

Writing Lives
- Class is reserved for incoming Residential College students only.
- 17073 PDR SEM 011 WM 4-530PM Stainton

The Rev Will Not be Televised
- Class is reserved for incoming Residential College students only.
- 16512 PDR SEM 012 TTH 830-10AM Karageorgos

Unhealthy Imaginations
- Class is reserved for incoming Residential College students only.
- 20148 PDR SEM 013 TTH 4-530PM Pokornowski

20th Century US Urban History
- Class is reserved for incoming Residential College students only.
- 28454 PD SEM 008 WM 2-4PM Myers

Journeys From and To the Self
- Class is reserved for incoming Residential College students only.

### Independent Study

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Foundations of Music

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Class is open to all RC students without instructor consent.

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Class meets in Detroit

Class meets in Detroit

Class meets in Detroit

Class also meets at Freedom House Tuesday 4-9PM

Class meets at Freedom House Tuesday 4-9PM

Class meets in Detroit

Class meets in Detroit
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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, DEPARTMENTS MAY GIVE AWAY A STUDENT’S PLACE IN A CLASS IF THEY DO NOT ATTEND:

---THE FIRST MEETING OF BIOLOGY, CHEMISTRY, AND PHYSICS LABORATORIES;

---EITHER OF THE FIRST TWO MEETINGS OF ENGLISH COURSES;

---THE FIRST TWO MEETINGS OF HISTORY 396 AND 397;

---EITHER OF THE FIRST TWO MEETINGS OF ANY COURSE OFFERED BY THE DEPARTMENT OF ROMANCE LANGUAGES;

---THE FIRST TWO MEETINGS OF COURSES IN OTHER SUBJECTS.

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

Department of Afro-American and African Studies

Afroamerican & African Studies (AAS)

Afroamerican & African Studies (AAS)

103 Social Sci Seminar

Read Africa Critical Perspect

104 Humanities Seminar

Nonviolence Montgomery - World

Who is Marcus Garvey

African American Foodways

111 Intro Afr&Diaspora

Zaborowska

115 Elementary Swahili

Mpesha

125 Elem African Lang I

Olanipekun

200 Int African Studies

Murray

202 Int Afro-Carib Stds

Khan

211 Dynamics Bl Diaspora

Boisseron

215 Intermed Swahili I

Mwipopo

230 Af-Am His I

Young

246 Africa to 1850

Poteet

254 History of Hip Hop

Ward

271 Intr Afr-Am Lit

Sanmartin

290 Select Blk World Stl

Doris

Seven African Objects

Ellsworth

Contact the course Instructor for all inquires pertaining to an over ride.

Contact the course Instructor for all inquires pertaining to an over ride.

Seven African Objects

U of M Schedule of Classes Page 135 of 489
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**Swahili**

**Black Digital Studies**

**Capstone Course**
Department of American Culture

American Culture (AMCULT)

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26309  PI W DIS 004  W  6-7PM  G160 AH  Singh
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28493  PI W DIS 006  F  12-1PM  3540 NUB  Na
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31091  PIRW SEM 001  MW  1-230PM  2401 MH  Lawsins

103  1st Yr Seminar  3.00  ADVISORY  40.00
Food & Gender in Asian Am Commun
30684  PIRW SEM 002  TTH  10-1130AM  1096 EH  Calvo Quiros
Vampires and Monsters
30685  PIRW SEM 003  TTH  10-1130AM  3347 MH  Borja
Religious Pluralism in the US
30686  PIRW SEM 004  MW  10-1130AM  1437 MH  Desai
Cold War Through Pop Culture
29403  PIRW SEM 005  TTH  230-4PM  2353 MH  Cheney Lippold
From Origins to Internet
32269  PIRW SEM 007  MW  830-10AM  2336 MH  Walker
African American Foodways
36091  PIRW SEM 009  TTH  1130-1PM  4175 AH  Montero Roman
Latinx Feminism in Lit & Media
204  Themes Amer Culture
31351  PI W LEC 002  MW  230-4PM  G127 AH  Abdul Khabeer
Hip Hop Music and Culture
28266  PI W LEC 008  F  1-4PM  1401 MH  Hughes
Indigenous Performance
32342  PI W LEC 009  MW  530-7PM  2114 MLB  Roby
Israel and America
205  Amer Cultures
30984  AI LEC 001  TTH  230-4PM  AUD C AH  Calvo Quiros
Motor Nation
30985  PI W DIS 002  TH  6-7PM  G160 AH  Mora
Motor Nation
30986  PI W DIS 003  TH  4-5PM  B2560 BUS  Mora
Motor Nation
30987  PI W DIS 004  TH  5-6PM  B109 MLB  Mora
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30988  PI W DIS 005  F  11-12PM  1401 MH  Karizat
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213  Intro Latina/o Study
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214  Asian Pacific Amer St
28268  AI LEC 001  MW  1-230PM  3330 MH  Shin
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30902  PI W DIS 003  W  5-6PM  3448 MH  Erhard
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215  Intro Arab Amer St
19595  AI LEC 001  TTH  4-530PM  3330 MH  Stiffler
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20058  PI W DIS 003  TH  1-2PM  2225 SEB  Duran
20918  PI W DIS 004  TH  2-3PM  1508 EQ  Duran

217  Intr Nat Amer Stds
29026  PI W LEC 005  TTH  830-10AM  1448 MH  Hughes

222  Elementary Ojibwe I
25079  PI W REC 001  TTH  1-230PM  G634 HH  Pitawanakwat

232  Nat Amer Lit
28527  PI W LEC 001  TTH  1130-1PM  1359 MH  Lyons

240  Intro Women Stdy
10631  A LEC 001  MW  2-3PM  AUD A AH  Cotera
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**Asian Languages (ASIANLAN)**
NOTE: IF YOU HAVE TAKEN A SECOND LANGUAGE AT ANY INSTITUTION (OTHER THAN U OF M) AND WOULD LIKE TO ENROLL IN A
LANGUAGE COURSE BEYOND THE FIRST YEAR, YOU MUST TAKE THE APPROPRIATE PLACEMENT EXAM. PLEASE CONTACT THE DEPARTMENT
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In order to ensure even enrollment in all recitation sections, ALC is practicing controlled enrollments. The total
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**South and Southeast Asia (SSEA)**

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**U of M Schedule of Classes Page 154 of 489**
Biology Department

Biology (BIOLOGY)

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

101 Food Energy Env Jus 4.00
30779 S W LEC 001 MWF 3-4PM AUD A AH Vandermeer
32756 P W DIS 002 W 530-7PM 1507 NUB Fitch, Vandermeer
30797 P W DIS 003 W 530-7PM 3265 USB Hajian-Forooshani, Vandermeer
30802 P W DIS 004 T 4-530PM 3356 MH Vaidya, Vandermeer
30804 P W DIS 005 W 4-530PM 1512 NUB Fitch, Vandermeer
30796 P W DIS 006 M 1-230PM 1460 MH Sanchez, Vandermeer
30803 P W DIS 007 W 1130-1PM 3265 USB Hajian-Forooshani, Vandermeer
30805 P W DIS 008 F 10-1130AM 4128 LSA Fitch, Vandermeer
30798 P W DIS 009 F 10-1130AM 3265 USB Vaidya, Vandermeer
30806 P W DIS 010 F 1130-1PM 1512 NUB Fitch, Vandermeer
30804 P W DIS 011 F 1-230PM 3356 MH Vaidya, Vandermeer

105 Biology of Nutrition 4.00
23923 S W LEC 001 TTH 1130-1PM AUD 4 MLB Kurdziel
ALL DISCUSSION SECTIONS BEGIN MONDAY, SEPT. 9.
25661 P W DIS 002 TH 1-2PM 4151 USB Mims
24068 P W DIS 003 TH 2-3PM 271 WEISER Grabowski
24071 P W DIS 004 TH 3-4PM 3207 LSA Orth
24072 P W DIS 005 TH 4-5PM 1505 NUB Grabowski
24070 P W DIS 006 F 10-11AM 1028 DANA Feliciano
24069 P W DIS 007 F 11-12PM 1046 DANA Oliphant
24068 P W DIS 008 F 12-1PM 1250 USB Feliciano
24067 P W DIS 009 F 1-2PM 1250 USB Mims
25663 P W DIS 010 F 2-3PM 1509 NUB Mims
24066 P W DIS 011 F 11-12PM 3265 USB Vaidya, Vandermeer
25662 P W DIS 012 F 4-5PM 1427 MH Oliphant

106 Animal Diversity 4.00
23926 S W LEC 001 MWF 9-10AM 4153 USB Eidietis
23928 P W DIS 002 T 9-10AM 4153 USB Orth
23927 P W DIS 003 T 3-4PM 3207 LSA Orth

120 First Year Sem Biol 3.00 ADVISORY
24906 P RW SEM 001 WF 10-1130AM 2427 MH Pavgi
Myth Busters: Health & Nutrit
31527 P RW SEM 002 TTH 10-1130AM 2320 SEB Raymond
Biology of Stem Cells

121 Topics in Biology 1.00-3.00
26412 PI W LEC 001 TH 1-2PM 4151 USB Mims
24991 P W LEC 002 TH 1-2PM 271 WEISER Grabowski
24990 P W LEC 003 TH 2-3PM 3207 LSA Orth

171 Intro Biology: EEB 4.00
THE FIRST LECTURE WILL BE HELD WED., SEPT. 4. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 25, OCT. 23, AND NOV. 20. Students should leave 6-8PM on Wed. open for exams.
18377 SI W LEC 001 MW 1-230PM 140 LORCH Duffy
18376 SI W LEC 002 MW 1-230PM 140 LORCH Duffy
THE FIRST LECTURE WILL BE HELD WED., SEPT. 4. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 25, OCT. 23, AND NOV. 20. Students should leave 6-8PM on Wed. open for exams.
18378 SI W LEC 003 MW 1-230PM 140 LORCH Duffy
18379 SI W LEC 004 MW 1-230PM 140 LORCH Duffy
THE FIRST LECTURE WILL BE HELD WED., SEPT. 4. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 25, OCT. 23, AND NOV. 20. Students should leave 6-8PM on Wed. open for exams.
18380 SI W LEC 005 MW 1-230PM 140 LORCH Duffy
THE FIRST LECTURE WILL BE HELD WED., SEPT. 4. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 25, OCT. 23, AND NOV. 20. Students should leave 6-8PM on Wed. open for exams.
18381 SI W LEC 006 MW 1-230PM 140 LORCH Duffy
THE FIRST LECTURE WILL BE HELD WED., SEPT. 4. DISCUSSION SECTIONS BEGIN THE WEEK OF SEPT. 9. EXAMS WILL BE GIVEN WEDS., 6-8PM, SEPT. 25, OCT. 23, AND NOV. 20. Students should leave 6-8PM on Wed. open for exams.
18382 PI W DIS 006 M 830-10AM 3230 USB Iiff
18383 PI W DIS 007 M 10-1130AM 3230 USB Iiff

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

19094 PDR DIS 101 TTH 1-3PM 1632 CHEM Giffen

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

18791 PIRW DIS 200 T 1130-1PM 3230 USB Eidietis

SECTIONS 200 AND 201 ARE RESERVED FOR HONORS STUDENTS.

18388 PIRW DIS 201 T 1-230PM 3230 USB Eidietis

SECTIONS 200 AND 201 ARE RESERVED FOR HONORS STUDENTS.


18401 S LEC 001 MWF 9-10AM AUD 3 MLB Chapman, Csankovszki

18402 S LEC 002 MWF 9-10AM AUD 3 MLB Chapman, Csankovszki


18403 S LEC 003 MWF 10-11AM AUD 3 MLB Csankovszki, Chapman


18404 S LEC 004 MWF 10-11AM AUD 3 MLB Csankovszki, Chapman


22456 A LEC 005 MWF 2-3PM 1250 USB Wood


This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.
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Microbiome Authentic Research Connection section. Enrollment by application only. Please visit https://sites.lsa.umich.edu/arc/biology-173/. Enrollment in Lecture Section 003 only.

Microbiome Authentic Research Connection section. Enrollment by application only. Please visit https://sites.lsa.umich.edu/arc/biology-173/. Enrollment in Lecture Section 003 only.

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Biostatistics
The Friday 2-3pm session will meet together with the BIO 173.003 lecture in MLB Aud 4. BIOINFORMATICS USING HUMAN MICROBIOME DATA. Enrollment by application only. Please visit https://sites.lsa.umich.edu/arc/biology-201-bioinformatics/

Developmental Biol

Microbiology

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Instructors:
- Gupta
- Lei
- Clement
- Koutmou
### Biophysics Research Division

**Biophysics (BIOPHYS)**

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Chemistry Department
Chemistry (CHEM)

--A GRADE OF C- OR BETTER MUST BE OBTAINED IN ALL CHEMISTRY COURSES PREREQUISITE TO SUBSEQUENT CHEMISTRY COURSES.
--ROOM A706 CHEM IS A WHEELCHAIR EQUIPPED LAB.
--A STUDENT WHO DOES NOT ATTEND THE FIRST MEETING OF A BIOLOGY, CHEMISTRY, OR PHYSICS LAB MAY BE DROPPED FROM THAT COURSE FOR NON-ATTENDANCE. ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION PROCESS TO MAKE SURE THAT THEIR OFFICIAL COURSE SCHEDULES MATCH THE COURSES THEY ARE ATTENDING.

105 Changing Atmos 3.00
125 Gen Chem Lab I 1.00 ADVISORY, ENFORCED 100.00

--YOU MUST ALSO REGISTER FOR CHEM 126, SECTION 100

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

10807 P W LEC 001 TTH 10-1130AM 1210 CHEM De Roo
125 Gen Chem Lab I 1.00 ADVISORY, ENFORCED 100.00

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

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

10808 ADR LEC 100 TH 10-11AM 1800 CHEM Poniatowski
10810 PDR LAB 110 M 11-2PM A706 CHEM Lau
10812 PDR LAB 111 M 11-2PM A712 CHEM Hardin
17627 PDR LAB 112 M 11-2PM A718 CHEM Le
17629 PDR LAB 113 M 11-2PM A724 CHEM Di Mauro
18033 PDR LAB 114 M 11-2PM A730 CHEM Madu
10814 PDR LAB 115 M 11-2PM A736 CHEM Miller
10816 PDR LAB 116 M 11-2PM A742 CHEM Musselman
10818 PDR LAB 120 T 11-2PM A706 CHEM Booth
10820 PDR LAB 121 T 11-2PM A712 CHEM Dai
15383 PDR LAB 122 T 11-2PM A718 CHEM Gao
10822 PDR LAB 123 T 11-2PM A724 CHEM Geng
10824 PDR LAB 124 T 11-2PM A730 CHEM Glenn
10826 PDR LAB 125 T 11-2PM A736 CHEM Jeon
10828 PDR LAB 126 T 11-2PM A742 CHEM Xiao
10830 PDR LAB 130 T 2-5PM A706 CHEM Juliano
10832 PDR LAB 131 T 2-5PM A712 CHEM Lin
17203 PDR LAB 132 T 2-5PM A718 CHEM Jones
17205 PDR LAB 133 T 2-5PM A724 CHEM Terry
17207 PDR LAB 134 T 2-5PM A730 CHEM Punzalan
17209 PDR LAB 135 T 2-5PM A736 CHEM Trinklein
18040 PDR LAB 136 T 2-5PM A742 CHEM Wu

--YOU MUST ALSO REGISTER FOR CHEM 126 SECTION 200

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

10833 ADR LEC 200 T 12-1PM 1800 CHEM Poniatowski
18541 PDR LAB 210 W 11-2PM A706 CHEM Musselman
18543 PDR LAB 211 W 11-2PM A712 CHEM Hardin
18553 PDR LAB 212 W 11-2PM A718 CHEM Le
18546 PDR LAB 213 W 11-2PM A724 CHEM Di Mauro
18549 PDR LAB 214 W 11-2PM A730 CHEM Madu
18547 PDR LAB 215 W 11-2PM A736 CHEM Miller
18555 PDR LAB 220 W 2-5PM A706 CHEM Gao
18557 PDR LAB 221 W 2-5PM A712 CHEM Brunemann
18551 PDR LAB 222 W 2-5PM A730 CHEM Liu
36816 PDR LAB 223 W 2-5PM A736 CHEM Maxwell
17225 PDR LAB 230 TH 8-11AM A706 CHEM Juliano
16216 PDR LAB 231 TH 8-11AM A712 CHEM Lin
17195 PDR LAB 232 TH 8-11AM A718 CHEM Kulju
17197 PDR LAB 233 TH 8-11AM A724 CHEM Terry
18559 PDR LAB 234 TH 8-11AM A730 CHEM Liu
18563 PDR LAB 235 TH 8-11AM A742 CHEM Shi
18569 PDR LAB 240 F 8-11AM A724 CHEM Shi
17199 PDR LAB 241 F 8-11AM A736 CHEM Trinklein
17630 ADR LEC 300 T 10-11AM 1800 CHEM Poniatowski

--YOU MUST ALSO REGISTER FOR CHEM 126 SECTION 300

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

18572 PDR LAB 310 TH 2-5PM A706 CHEM Booth
18574 PDR LAB 311 TH 2-5PM A712 CHEM Dai
18576 PDR LAB 312 TH 2-5PM A718 CHEM Jones
18578 PDR LAB 313 TH 2-5PM A724 CHEM Wu
18580 PDR LAB 314 TH 2-5PM A730 CHEM Zhang
18582 PDR LAB 315 TH 2-5PM A736 CHEM Jeon

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
18584 PDR LAB 316 TH 2-5PM A742 CHEM Xiao
18586 PDR LAB 320 F 8-11AM A706 CHEM Wilson
18588 PDR LAB 321 F 8-11AM A712 CHEM Brunemann
18590 PDR LAB 322 F 8-11AM A718 CHEM Kulju
18593 PDR LAB 323 F 8-11AM A720 CHEM Glenn
18591 PDR LAB 324 F 8-11AM A742 CHEM Maxwell
18596 PDR LAB 330 F 11-2PM A706 CHEM Wilson
17632 PDR LAB 331 F 11-2PM A712 CHEM Zhang
17634 PDR LAB 332 F 11-2PM A718 CHEM Geng
20513 PDR LAB 333 F 11-2PM A730 CHEM Kulju
18601 PDR LAB 334 F 11-2PM A736 CHEM Glenn
24161 ADR LEC 500 T 10-11AM 1640 CHEM Pratt
Active Research Experience section: Enrollment by application only: <a href=https://sites.lsa.umich.edu/arc/chemistry-125126-snow-chemistry/>Click here for the application.</a> Contact bradshal@umich.edu with questions.
24163 PDR LAB 510 W 2-5PM A718 CHEM Spencer
Active Research Experience section: Enrollment by application only: <a href=https://sites.lsa.umich.edu/arc/chemistry-125126-snow-chemistry/>Click here for the application.</a> Contact bradshal@umich.edu with questions.
24165 PDR LAB 511 W 2-5PM A724 CHEM Cooke
Active Research Experience section: Enrollment by application only: <a href=https://sites.lsa.umich.edu/arc/chemistry-125126-snow-chemistry/>Click here for the application.</a> Contact bradshal@umich.edu with questions.
126 Gen Chem Lab II 1.00 ADVISORY, ENFORCED
16618 P R LEC 100 ARR ARR Poniatowski
--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 100.
CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.
Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
16619 P R LEC 200 ARR ARR Poniatowski
--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 200.
CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.
Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
17635 P R LEC 300 ARR ARR Poniatowski
--YOU MUST ALSO REGISTER FOR CHEM 125 SECTION 300.
CHEM 126 meets the same day/time/location as CHEM 125 and must be taken in conjunction with CHEM 125.
Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
130 G Chem Invest&R Prin 3.00 ADVISORY
SECTION 100 STUDENTS MUST ELECT DISCUSSION SECTION 110-150.
Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
<p>Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate exam times will be provided by instructors after the semester begins.</p>
10834 A LEC 100 MWF 10-11AM 1800 CHEM Albright
10827 P DIS 10 M 9-10AM 1632 CHEM Hatch
10838 P DIS 11 M 12-1PM 1632 CHEM Hatch
10850 P DIS 12 M 3-4PM 1636 CHEM Pitts
29705 P DIS 13 M 4-5PM 1636 CHEM Pitts
10847 P DIS 120 T 9-10AM 2234 USB Garza
10839 P DIS 121 T 3-4PM 1632 CHEM Hatch
10848 P DIS 122 T 4-5PM 1636 CHEM Garza
10846 P DIS 130 W 9-10AM 1632 CHEM Calkins
10844 P DIS 131 W 12-1PM 1624 CHEM Zaimi
10849 P DIS 132 W 12-1PM 4152 USB Ray Chaudhuri
10843 P DIS 133 W 4-5PM 1628 CHEM Zaimi
10845 P DIS 140 TH 9-10AM 1650 CHEM Zaimi
10839 P DIS 141 TH 11-12PM 1628 CHEM Zaimi
10841 P DIS 142 TH 3-4PM 271 WEISER Kastelic
10842 P DIS 143 TH 4-5PM 1650 CHEM Reed
10835 P DIS 150 F 9-10AM 1632 CHEM White
--SECTION 200 - STUDENTS MUST ELECT DISCUSSION SECTION 210-251.
Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
<p>Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate exam times will be provided by instructors after the semester begins.</p>
10851 A LEC 200 MWF 1-2PM 1800 CHEM Albright
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--SECTION 300 - STUDENTS MUST ELECT SECTION 310-351.

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

Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate time exams will be provided by instructors after the semester begins.

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--SECTION 400 - STUDENTS MUST ELECT DISCUSSION 410-414. The intensive lecture section (Section 400) is intended for those students who would benefit from a smaller lecture section (maximum 100 students) and more lectures so that the pace is slower and there is more feedback. This section is reserved for CSP students and students who have placed into CHEM 130. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate time exams will be provided by instructors after the semester begins.

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</table>

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--SECTION 500 - STUDENTS MUST ELECT DISCUSSION 510-550.

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

Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate time exams will be provided by instructors after the semester begins.
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<td>1632 CHEM</td>
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</table>

210 Struct & React I 3.00 ADVISORY

--SECTION 100 - MUST ELECT ONE DISCUSSION 110-199.

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

--SECTION 200 - MUST ELECT ONE DISCUSSION 210-299.

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

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

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

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

Any questions regarding enrolling for this course should be directed to the Chemistry Student Services Office at chemundergrad@umich.edu.
about alternate time exams will be provided by instructors after the semester begins.</p>

<table>
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<th>PREREQ</th>
<th>LAB FEE</th>
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STUDENTS MUST SHOW VERIFICATION OF REGISTRATION FOR CHEM 211 AT LAB CHECK IN AND CLAIM THEIR SPACES AT THE FIRST MTG OF THE LAB.

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

NOTE: Although concurrent (or prior) enrollment in Chem 210 is an advisory, rather than enforced, pre/co-requisite, it is EXTREMELY STRONGLY RECOMMENDED. The topic of stereochemistry is prominent in Chem 211, and the class will be very challenging for students who are not currently (or have not previously) taken Chem 210.

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

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

NOTE: Although concurrent (or prior) enrollment in Chem 210 is an advisory, rather than enforced, pre/co-requisite, it is EXTREMELY STRONGLY RECOMMENDED. The topic of stereochemistry is prominent in Chem 211, and the class will be very challenging for students who are not currently (or have not previously) taken Chem 210.

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NOTE: Although concurrent (or prior) enrollment in Chem 210 is an advisory, rather than enforced, pre/co-requisite, it is EXTREMELY STRONGLY RECOMMENDED. The topic of stereochemistry is prominent in Chem 211, and the class will be very challenging for students who are not currently (or have not previously) taken Chem 210.

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

Chem 211-400 is focused on techniques used for the synthesis, isolation, and purification of organic compounds, and the content differs from the 100, 200, and 300 sections. This is an honors section. Non-honors students who would like to register, please email chemundergrad@umich.edu for an override.

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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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246; this is not a stand-alone course.

260  Chemical Principles  3.00  ADVISORY
10968 A  LEC 100  MWF  10-11AM  1230 USB  Zimmerman

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

Do not hesitate to register because of exam time conflicts; we offer same-day alternate exam times. Information about alternate time exams will be provided by instructors after the semester begins.

17592 P  W  DIS 101  T  9-10AM  1624 CHEM  Kelly
17593 P  W  DIS 102  F  3-4PM  1636 CHEM  Dang
17594 P  W  DIS 103  F  11-12PM  1628 CHEM  Jugovic, Zimmerman
17595 P  W  DIS 104  F  9-10AM  1628 CHEM  Jugovic
17596 W  DIS 105  W  9-10AM  1628 CHEM  Dang
10969 A  LEC 200  MWF  2-3PM  1230 USB  Miller

CHEM 261 is for Chemical Engineering students only.

261  Intro Quantum Chem  1.00  ADVISORY

CHEM 261 is for Chemical Engineering students only.

303  Intro Bioinorg Chem  3.00  ADVISORY

20318 P  DIS 103  T  11-12PM  7603 HH  Schneider
20317 P  DIS 104  TH  11-12PM  7603 HH  Schneider

351  Biochem Fundamentals  4.00  ADVISORY

352  Intro Biochem Lab  2.00  ADVISORY  110.00
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U of M Schedule of Classes Page 170 of 489  FA 2019 2260 09-09-2019 12:09 21610809
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Classical Studies Department

Classical Archaeology (CLARCH)

Classical Archaeology (CLARCH)

222 Intro Roman Arch
- Course Title: Intro Roman Arch
- CR: 4.00
- Days: TTH
- Time: 10:15AM - 11:30AM
- Location: G127 AH
- Instructor: Stone

26589 P W LEC 002 F
- CR: 3.00
- Days: TTH
- Time: 10-11AM
- Location: 2163 AH
- Instructor: Oberlin

26590 P W DIS 003 W
- CR: 3.00
- Days: TTH
- Time: 9-10AM
- Location: 7603 HH
- Instructor: Moskowski

350 Topics in CLARCH
- CR: 3.00
- Days: TTH
- Time: 1-230PM
- Location: 2330 MH
- Instructor: Motta

Environmental Archaeology

380 Min-Myc Arch
- CR: 3.00
- Days: TTH
- Time: 11-12PM
- Location: 2163 AH
- Instructor: Moskowski

440 Cities Greece
- CR: 3.00
- Days: TTH
- Time: 11-12PM
- Location: 2163 AH
- Instructor: Moskowski

Arch of Roman Economy

33598 P W SEM 002 MW
- CR: 3.00
- Days: TTH
- Time: 1-230PM
- Location: 210 TAP
- Instructor: Barham

Visual Cultures of Ancient ME

Environmental Archaeology

36909 P W LEC 001 T
- CR: 3.00
- Days: TTH
- Time: 11-12PM
- Location: 1175 NQ
- Instructor: Renberg

Classical Civilization (CLCIV)

Ancient Greek World

101 Ancient Greek World
- CR: 4.00
- Days: TTH
- Time: 10-11AM
- Location: AUD A AH
- Instructor: Janko

11006 A LEC 001 T
- CR: 4.00
- Days: TTH
- Time: 9-10AM
- Location: 173 LORCH
- Instructor: Gorab Leme

11008 P W DIS 003 W
- CR: 3.00
- Days: TTH
- Time: 11-12PM
- Location: 2163 AH
- Instructor: Nash

When in Rome Eat as Romans Do

125 Mini Crse in CLCIV
- CR: 1.00
- Days: TTH
- Time: 4-5PM
- Location: 4530 PM
- Instructor: Dufallo

Mini Crse in CLCIV

125 Mini Crse in CLCIV
- CR: 1.00
- Days: TTH
- Time: 4-5PM
- Location: 4530 PM
- Instructor: Dufallo

Women in Ancient Med

303 Women in Ancient Med
- CR: 3.00
- Days: TTH
- Time: 230-4PM
- Location: 110 WEISER-TBL
- Instructor: Verhoogt
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Modern Greek (GREEKMOD)

101 Elem Modern Greek
11680 P W REC 001 MTWTH 10-11AM 3359 MH Margomenou 4.00

201 2nd Yr Mod Greek I
11681 P W REC 001 MTWTH 11-12PM 3359 MH Margomenou 4.00 ADVISORY

301 Inter Mod Greek I
11682 P W LEC 001 MW 1-230PM 3440 MH Margomenou 3.00 ADVISORY

350 Topics in MODGREEK
30884 P W LEC 001 TTH 1-230PM 296 WEISER Leontis 3.00

Greek Myth in Film

399 Directed Study
ARR ARR 1.00-4.00

495 Sr Honors Research
ARR ARR 1.00-3.00 ADVISORY

499 Supervised Reading
ARR ARR 1.00-3.00 ADVISORY

501 Elem Modern Greek
11684 P W REC 001 MTWTH 10-11AM 3359 MH Margomenou 3.00 ADVISORY

503 2nd Yr Mod Grk I
11685 P W REC 001 MTWTH 11-12PM 3359 MH Margomenou 3.00 ADVISORY

505 Inter Mod Greek I
14267 P W REC 001 MW 1-230PM 3440 MH Margomenou 3.00 ADVISORY

undergraduates should elect this course as MG 301

599 Directed Reading
ARR ARR 1.00-4.00 ADVISORY

Great Books (GTBOOKS)

191 Fresh Honors
ARR ARR 4.00 ADVISORY

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

Latin (LATIN)

NOTE - A PRE-REGISTRATION PLACEMENT TEST FOR STUDENTS WITH HIGH SCHOOL LATIN FOR THE FALL TERM WILL BE REQUIRED. GO TO THE DEPARTMENTAL OFFICE, 2160 A H, FOR INFORMATION OR CALL 764-0360.

101 Elementary Latin I
11453 P W REC 001 MTTHF 9-10AM 2163 AH Migliore 4.00 ADVISORY, ENFORCED
11454 P W REC 002 MTTHF 10-11AM 2163 AH Hardy
17226 P W REC 003 MTTHF 11-12PM 2163 AH Cohen
11455 P W REC 004 MTTHF 1-2PM 2163 AH Zapoloni Pavia

102 Elementary Latin II
11456 P W REC 001 MTTHF 12-1PM 171 LORCH Upton 4.00 ADVISORY

103 Review Latin
11457 P W REC 001 MTTHF 11-12PM 2163 AH Tohm 4.00 ADVISORY

193 Intens Elem Lat I
28618 P W REC 001 MTTHF 9-10AM 2106 MLB Soter 4.00

231 Roman Kings&Emp
11458 P W REC 001 MTTHF 9-10AM 5179 AH Santucci 4.00 ADVISORY, ENFORCED
11459 P W REC 002 MTTHF 12-1PM B814 EQ Cornel
11460 P W REC 003 MTTHF 12-1PM 4155 LSA Nabor
11461 P W REC 004 MTTHF 1-2PM 7603 HH Markus
23469 P W REC 005 MTTHF 1-2PM 1469 MH Haney
11462 P W REC 001 MTTHF 10-11AM 2106 MLB Soter 4.00 ADVISORY, ENFORCED

232 Vergil-Aeneid
232 Vergil-Aeneid

232 Vergil-Aeneid

232 Vergil-Aeneid

301 Intermediate Latin
11463 P W REC 001 TTH 230-4PM 2163 AH 3.00 ADVISORY, ENFORCED

409 Augustan Poetry
30886 P W REC 001 MW 1130-1PM G463 MH Berlin 3.00 ADVISORY, ENFORCED

421 Teach Latin
22456 PI W REC 001 MTH 830-10AM 3315 MH Tohm 4.00 ADVISORY, ENFORCED

426 Practicum
11464 PI W REC 001 ARR ARR 1.00 ADVISORY, ENFORCED

472 Topics Lat Lit & Cul

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<td>849</td>
<td>Constantine&amp;His Age P W SEM 001 2-5PM 2038 TISCH Potter</td>
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Communication Studies

Communication Studies (COMM)

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

101 The Mass Media 4.00 ENFORCED

- 11019 AIR LEC 001 TTH 230-4PM 140 LORCH Ankerson
- 11020 PIRW DIS 002 TH 7-8PM B103 MLB Meyerend
- 11021 PIRW DIS 003 F 10-11AM 1110 NQ Mohan
- 11022 PIRW DIS 004 F 11-12PM 1110 NQ Mohan
- 11023 PIRW DIS 005 F 12-1PM 1110 NQ Mohan
- 11024 PIRW DIS 006 F 1-2PM 1110 NQ Meyerend

5 seats reserved for LSA Honors.
- 11025 PIRW DIS 007 F 2-3PM 1110 NQ Dawson-Andoh
- 11026 PIRW DIS 008 TH 6-7PM 1110 NQ Dawson-Andoh
- 11027 PIRW DIS 009 TH 7-8PM 1110 NQ Dawson-Andoh

Please select "time conflict OK" when registering for this section.

102 Process & Effects 4.00 ENFORCED

- 11029 AIR LEC 001 TTH 1-230PM AUD 4 MLB Campbell
- 11030 PIRW DIS 002 TH 7-8PM 2202 MLB Roden
- 11031 PIRW DIS 003 F 10-11AM 1245 NQ Wang
- 11032 PIRW DIS 004 F 11-12PM 1245 NQ Wang
- 11033 PIRW DIS 005 F 12-1PM 1245 NQ Mustafaj

5 seats reserved for LSA Honors.
- 11034 PIRW DIS 006 F 1-2PM 1245 NQ Roden
- 11035 PIRW DIS 007 F 2-3PM 1245 NQ Mustafaj
- 11036 PIRW DIS 008 TH 6-7PM 1245 NQ Hawkins
- 11037 PIRW DIS 009 F 11-12PM 806 BMT Hawkins
- 11038 PIRW DIS 010 F 1-2PM R2320 BUS Wang

15 seats reserved for freshmen.
- 18523 PIRW DIS 011 F 10-11AM 1469 MH Ngai
- 18526 PIRW DIS 012 F 11-12PM 1469 MH Ngai

15 seats reserved for freshmen.
- 18527 PIRW DIS 013 F 12-1PM 806 BMT Ngai

15 seats reserved for freshmen.

159 FYS in Media Issues 3.00 ENFORCED

- 31377 PIRW SEM 001 MW 4-530PM 1245 NQ Hussain

Hackers Pranksters Whistleblowers

First year students

221 Quantitative Skills 4.00 ADVISORY

- 31386 AD LEC 001 TTH 1130-1PM 2260 USB Pasek
- 31387 PD W LAB 002 W 9-10AM 444A MH Liang
- 31388 PD W LAB 003 W 4-5PM 2275 NQ Li
- 31389 PD W LAB 004 W 5-6PM 2275 NQ Li
- 31390 PD W LAB 005 W 6-7PM 444C MH Liang

261 Views on the News 4.00 ENFORCED

- 11044 AIR LEC 001 MW 1-230PM LEC RM 1 MLB Pearson
- 11045 PIRW DIS 002 T 2-3PM 2011 MLB Madrigal
- 11046 PIRW DIS 003 T 3-4PM 2212 MLB Madrigal
- 11047 PIRW DIS 004 T 4-5PM G026 TISCH Madrigal

290 Public Speaking 3.00

- 32615 PIRW LEC 001 MW 1-230PM 1507 EQ Moshin

292 Arg & Debate 3.00

- 32616 P W LEC 001 TTH 10-1130AM 706 BMT Moshin
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Gender and Pop Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001 in Fall 2017.

31482 | PIRW DIS 002 T 11-12PM 1175 NQ | Menon |

Gender and Pop Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001 in Fall 2017.

31483 | PIRW DIS 003 T 5-6PM B124 MLB | Menon |

Gender and Pop Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001 in Fall 2017.

31484 | PIRW DIS 004 T 4-5PM 2229 SEB | Menon |

American Jewishness

Please note-NO CREDIT GRANTED to students who took COMM 305.005 in Fall 2018.

31485 | A LEC 005 TTH 1130-1PM LEC RM 1 MLB | Moshin |

American Jewishness

Please note-NO CREDIT GRANTED to students who took COMM 305.005 in Fall 2018.

31486 | P RW DIS 006 F 9-10AM B113 MLB | Katz |

American Jewishness

Please note-NO CREDIT GRANTED to students who took COMM 305.005 in Fall 2018.

31487 | P RW DIS 007 F 10-11AM B113 MLB | Katz |

American Jewishness

Please note-NO CREDIT GRANTED to students who took COMM 305.005 in Fall 2018.

31488 | P RW DIS 008 F 11-12PM B113 MLB | Katz |

Global Media and Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001/INTLSTD 389.006 in Fall 2018.

31494 | PIRW DIS 010 T 4-5PM 1245 NQ | Choi |

Global Media and Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001/INTLSTD 389.006 in Fall 2018.

31495 | PIRW DIS 011 T 5-6PM 1245 NQ | Choi |

Global Media and Culture

Please note-NO CREDIT GRANTED to students who took COMM 305.001/INTLSTD 389.006 in Fall 2018.

31496 | PIRW DIS 012 T 6-7PM 1245 NQ | Choi |

Covering Presidential Campaign

Please note-NO CREDIT GRANTED to students who took COMM 306.005 in Winter 2019.

32124 | AL LEC 013 MW 230-4PM 1449 MH | Yoon |

Covering Presidential Campaign

Please note-NO CREDIT GRANTED to students who took COMM 306.005 in Winter 2019.

32125 | PIRW DIS 014 F 9-10AM 3333 MH | |

Covering Presidential Campaign

Please note-NO CREDIT GRANTED to students who took COMM 306.005 in Winter 2019.

32126 | PIRW DIS 015 F 10-11AM 3333 MH | Haiaeshutter-Rice |

Covering Presidential Campaign

Please note-NO CREDIT GRANTED to students who took COMM 306.005 in Winter 2019.

32127 | PIRW DIS 016 F 11-12PM 3733 CCRB | Haiaeshutter-Rice |

Advertising,Comm.,& Consumerism

317 Dsgn Persuasive Comm

19093 | PIRW LEC 001 T 4-7PM R1230 BUS | O'Day |

Section reserved for declared Communication Studies juniors and seniors. Meets with MKT 407.001.

318 Media & Violence

20048 | A LEC 001 TTH 830-10AM LEC RM 1 MLB | Huesmann |

Cross-listed with Psych 318.001.

20049 | PI W DIS 002 W 9-10AM 1245 NQ | Ploger |

Cross-listed with Psych 318.002.

24002 | PI W DIS 003 W 2-3PM 1245 NQ | Ploger |

Cross-listed with Psych 318.003.

24003 | PI W DIS 004 W 3-4PM 1245 NQ | Ploger |

Cross-listed with Psych 318.004

322 UG Research Prac

I IND + ARR ARR

350 Rise & Demise Mass Cult

29896 | AIR LEC 001 MW 4-530PM LEC RM 1 MLB | Vaillant |

29897 | PIRW DIS 002 T 9-10AM 2114 MLB | Gray |

29898 | PIRW DIS 003 T 10-11AM 1155 NQ | Gray |

29899 | PIRW DIS 004 T 5-6PM B101 MLB | Dyche |

U of M Schedule of Classes Page 177 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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| 820  | Topics in Hum Trad               |      |          |         |
| 25258| PIRW SEM 001 M                   | 3.00 | Pasek    |         |
| 840  | Topics Soc Sci Trad              |      |          |         |
| 27253| PIRW SEM 001 TTH                 | 1.00-6.00 | ADVISORY|
| 900  | Prelim Exam Prep                 |      |          |         |
| 990  | Diss-Precand                     | 1.00-8.00 | ADVISORY|
| 993  | Sem for Instructors              | 1.00 | Sandvig  | ADVISORY|
| 11059| PIR SEM 001 M                    | 8.00 |          | ENFORCED|
| 995  | Diss-Cand                        |      |          |         |
## Comparative Literature Program

### Comparative Literature (COMPLIT)

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### Additional Courses

- **Great Performances at Michigan**
- **Translate World Lit**
- **Found in Translation**
- **Babel Across Borders**
- **Literature and Identity**
- **Literature and Ideas**
- **Greek Myth in Film**
- **Studies in Poetry**
- **Studies in Film**
- **Migration & Trafficking**
- **Senior Seminar**
- **Introduction to Theory and Criticism**
- **Honors Thesis**
- **Topics in Theory**
- **Theory Today**
- **Contemporary Theory**
- **Special Topics**
- **Writing Grant Proposals**

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**Note:** Class meets September 4-October 2.
Class meets October 9-December 11

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**Translation as Genre**
- Medieval Iberian Otherness
- Discussion will be in English. Readings will be in English and Spanish. For those without Spanish reading ability, alternative readings can be assigned.

**Transcultural Studies (TCS)**
- Approaches to TCS II
- 3.00 ADVISORY
### Program Study of Complex Systems

#### Complex Systems (CMPLXSYS)

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Calculus through Math 116 required, Math 215 highly recommended.
Comprehensive Studies Program

Comprehensive Studies Program (CSP)

100 CSP Reading Sem 3.00 45.00
his section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

11018 PDR SEM 001 TTH 1130-1PM G128 AH Winston
20167 PDR SEM 002 TTH 10-1130AM B814 EQ Winston
his section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

101 CSP: College Success 1.00
24008 P R LEC 001 M 4-5PM 296 WEISER Jason, Fontenot
This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

24018 P R LEC 002 TH 11-12PM 1640 CHEM Jason, Fontenot
This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

29180 PDR LEC 004 W 4-5PM 1400 CHEM Gibson
This section is reserved for Kessler Presidential Scholars. Permission from a CSP advisor is required. Please contact CSP for more information at 764-9128 or csp-4info@umich.edu.

105 Read&Writ Sem 4.00
22343 PDR LEC 001 MW 2-4PM 3353 MH Naylor
Insiders & Outsiders

Insiders & Outsiders
English Language Institute

English Language Institute (ELI)

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

For assistance in choosing an appropriate course, please go to the ELI Academic Advising website:
http://bit.ly/eliadvising or e-mail: eliadvisor@umich.edu to make an appointment to speak with an advisor.
ELI 539 Section 001 is a 10 week course. This section is open to GSIs only. Permission of instructor is required.

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English Language & Literature Dept

English Language And Literature (ENGLISH)

--A STUDENT WHO MISSES EITHER OF THE FIRST TWO CLASS MEETINGS OF AN ENGLISH COURSE MAY BE DROPPED FROM THE COURSE FOR NON-ATTENDANCE. ALL STUDENTS MUST TAKE ACTION THROUGH THE REGISTRATION PROCESS TO MAKE SURE THAT THEIR OFFICIAL SCHEDULE MATCHES THE COURSES THEY ARE ATTENDING.

124 Academic Writing&Lit

11160 P W REC 001 MWF 8-9AM 4211 AH Bruno
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11161 P W REC 002 MWF 11-12PM G437 MH Sarpy
Race Storytelling Genealogy
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

16016 P W REC 003 MW 230-4PM 2011 MLB Schey
Literature of Everyday Life
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11162 P W REC 004 TTH 830-10AM 2475 MH Dorman
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11163 P W REC 005 TTH 230-4PM 1505 EQ Bruno
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11164 P W REC 006 TTH 530-7PM 2454 MH Cimon
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11165 P W REC 007 TTH 1-230PM 4207 AH Belle

11166 P W REC 008 MWF 9-10AM 2462 MH Pelletier
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11167 P W REC 009 MWF 1-2PM G449 MH Keran
Writing&Reading Women's Rage
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11168 P W REC 010 MWF 10-11AM 2475 MH Kupetz
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11169 P W REC 011 MW 1130-1PM 2469 MH Mecklenburg
Adaptations
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11170 P W REC 012 TTH 230-4PM 2462 MH Davison
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11171 P W REC 013 MW 4-530PM 2454 MH Hixon
Adaptation as Literature
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11172 P W REC 014 MW 10-1130AM 3333 MH Van Cleve
At Home In The World
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11173 P W REC 015 TTH 4-530PM 2454 MH Godfrey
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11174 P W REC 016 TTH 10-1130AM 4207 AH Gillum

11175 P W REC 017 TTH 1-230PM 2475 MH Tardio
Medieval MythBusters
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11176 P W REC 018 MW 1-230PM 4207 AH Cullinane
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11177 P W REC 019 MW 230-4PM 2462 MH Ramsey
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
11178 P W REC 020 MW 830-10AM 2469 MH Contreras Ruiz

11179 P W REC 021 MW 10-1130AM 2469 MH Cobblah

Literature and Science
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11180 P W REC 022 MWF 11-12PM 4211 AH Kupetz
American Poetry and Politics

11181 P W REC 023 TTH 1130-1PM 4199 AH Fox
Passing Narratives in Amer Lit

24699 P W REC 024 MW 830-10AM 4207 AH Rossing
25437 P W REC 025 TTH 830-10AM 1509 NUB Henzy
25438 P W REC 026 MW 530-7PM 2462 MH Bellamy
125 Writing & Academic Inq 4.00
11182 P REC 001 TTH 830-10AM 2454 MH Hummel
Writing about Environ Crisis

11183 P W REC 002 MWF 8-9AM 2475 MH Moody
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11184 P W REC 003 MW 1130-1PM 2024 DANA Glover
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11185 P W REC 004 MWF 9-10AM 2475 MH Hughes
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

24699 P W REC 005 MWF 1-2PM 2454 MH Lynch
Writing Weird

11186 P W REC 006 MWF 9-10AM 4211 AH Burch
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11187 P W REC 007 MWF 12-1PM 2475 MH Lynch
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11188 P W REC 008 MWF 2-3PM 2454 MH Ward

Writing about Environ Crisis

11189 P W REC 009 MW 830-10AM 3556 DANA Bradley
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11190 P REC 010 MW 1-230PM 2462 MH McNeill
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11191 P REC 011 TTH 830-10AM 4199 AH Beydler
An Env Hist of Anc Rome

11192 P W REC 012 TTH 4-530PM 2462 MH Bruno
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11193 P REC 013 TTH 10-1130AM 171 LORCH Marciniak
Writ & Perform Id from 19th C

11194 P W REC 014 MW 4-530PM 4175 AH Hagler
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11195 P REC 015 TTH 230-4PM 2469 MH Longo
Writ about Media Use Wrds & Imag

11196 P W REC 016 TTH 830-10AM 4207 AH Balachander
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11197 P W REC 017 TTH 1130-1PM 1511 EO Toon
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11198 P W REC 018 MW 1130-1PM 1509 NUB Duffett
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11199 P REC 019 TTH 1130-1PM 2462 MH Porter
Welcome to College. Now What?

11200 P W REC 020 TTH 230-4PM 2475 MH Nagy
Develop Effective & Writ Strat
Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

16018 P W REC 021 TTH 4-530PM 2469 MH McLaughlin

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11201 P W REC 022 MW 830-10AM 806 BMT Godfrey

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11202 P W REC 023 MW 7-830PM 3353 MH Almore

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11203 P W REC 024 MWF 11-12PM 2462 MH Buckley

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11204 P W REC 025 TTH 830-10AM 1303 MH Hill

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11205 P W REC 026 TTH 830-10AM 2462 MH Li

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11206 P W REC 027 MW 230-4PM 4207 AH Burnette

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11207 P W REC 028 TTH 830-10AM 2469 MH Kubic

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11208 P W REC 029 MW 4-530PM 4199 AH Kim-Butler

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11209 P W REC 030 MWF 11-12PM 2454 MH Burch

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11210 P W REC 031 MWF 12-1PM 2462 MH Schutz

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11211 P R REC 032 MW 10-1130AM 1413 COUZENS Sidiki

On Immunity

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11212 P W REC 033 MW 10-1130AM 4207 AH Kotziers

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11213 P W REC 034 MW 830-10AM 3540 NUB Kingsland

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11214 P W REC 035 MW 10-1130AM 180 TAP Soberano

Writing/Science/Fiction

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11215 P W REC 036 MW 1-230PM 1507 NUB Mayorski

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11216 P W REC 037 MW 1130-1PM 4151 USB Geiger

Transplant Narratives

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

16020 P W REC 038 MW 10-1130AM 142 LORCH Rutty

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11217 P W REC 039 MW 4-530PM 2462 MH Conway

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11218 P W REC 040 MW 830-10AM 1448 MH Duan

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11219 P W REC 041 MW 1-230PM 2469 MH Wilson

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11220 P W REC 042 MW 1-230PM G634 HH Bazile

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11221 P W REC 043 TTH 1-230PM 4175 AH Rico

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11222 P W REC 044 TTH 1-230PM G128 AH Holland

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

16021 P W REC 045 MW 1130-1PM 142 LORCH Sherwood

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.
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16019 P R REC 047 MW 5:30-7PM G023 WQ Christman

MCSP Section. Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11224 P W REC 048 TTH 1:10-3PM G421B MH Zilberman

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

16552 P W REC 049 MWF 10:10-11AM 2454 MH Buckley

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

11227 P RW REC 052 MWF 12-1PM 2454 MH Ward

Writing Weird

Students (enrolled and waitlisted) must attend BOTH the first AND second days of class or they will be dropped immediately for non-attendance.

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First Year Seminar. Seats in First Year Seminars are opened gradually during Summer Orientation. Only first-year students, including those with sophomore standing, may register.
This course is intended primarily for undergraduate students from the School of Education who are specializing in Elementary Education, and for IDA concentrators in the Department of Astronomy. Preferred Admit students in Elementary Education should email Michigan-Earth@umich.edu for an override. Please include your UM ID number.

262 Plants and People 3.00
28260 P W LEC 001 TTH 10-1130AM 2520 DANA Smith

299 Ind Study EARTH 1.00-6.00
SIR IND + ARR ARR

305 Sediments
21363 A R LEC 001 MWF 9-10AM 2520 NUB Lohmann
21364 P RW LAB 002 M 2-4PM 3530 NUB
21365 P RW LAB 003 T 1-3PM 3530 NUB
22480 P RW LAB 004 T 3-5PM 3530 NUB
22942 P RW LAB 005 M 4-6PM 3530 NUB

309 GIS Explorations 3.00
23839 P W LEC 001 TTH 2-4PM 1570 NUB Larsen, Yuan

313 Geobiology 4.00
16991 A R LEC 001 TTH 10-1130AM 110 WEISER-TBL Dick, Wilson

315 Earth Materials
11351 A R LEC 001 MW 10-1130AM 2520 NUB Li
11332 P RW LAB 002 W 3-6PM 3526 NUB
22110 A R REC 003 T 10-11AM 2520 NUB
22477 P RW LAB 004 TH 1-4PM 3526 NUB

320 Earth Sys Evolution 3.00
333 Inexhaustible Seas? 4.00
31045 A R LEC 001 MW 1-230PM 2516 NUB Hendy
31046 PIRW DIS 002 M 10-11AM 2516 NUB
31047 PIRW DIS 003 T 1-2PM 2516 NUB

370 Solar Terrestrial 4.00
20260 P LEC 001 MW 10-12PM 2424 CSRB Zou

380 Nat Res, Econ&Envir 4.00
22106 A R LEC 001 TTH 10-1130AM 1570 NUB Simm
22107 PIRW DIS 002 F 9-10AM 2230 USB
22108 PIRW DIS 003 F 10-11AM 2230 USB
22109 PIRW DIS 004 T 4-5PM 2230 USB
22202 PIRW DIS 005 W 5-6PM 2230 USB
22203 PIRW DIS 006 TH 5-6PM 2230 USB
22511 PIRW DIS 007 TH 4-5PM 2230 USB
24453 PIRW DIS 005 T 4-5PM 2230 USB
24454 PIRW DIS 009 T 5-6PM 2230 USB

381 Intro Atm Radiation 3.00
25444 P R LEC 001 MF 130-3PM 2424 CSRB Huang

401 Geophys Fluid Dyn 3.00
20258 A R LEC 001 TTH 10-1130AM 1570 NUB Simon

408 Intro GIS Earth Sci 3.00
27968 A R LEC 001 MW 10-11AM 1570 NUB Benedict
27969 P RW LAB 002 W 11-1PM 1570 NUB

409 Earth System Model 4.00
17364 A R LEC 001 TTH 930-1130AM 2424 CSRB Cathles, Kachuck

413 Geomicrobiology 3.00
31044 P RW LEC 001 MW 1130-1PM 2520 NUB Johnson

417 Geology Great Lakes 2.00
28024 P RW LEC 001 TTH 1-2PM 2520 NUB Arnaboldi

421 Intro Phys Oceanogr 3.00
28025 A R LEC 001 TTH 10-1130AM 2520 NUB Arbic

422 Prin of Geochem 3.00
31049 P RW LEC 001 TTH 4-530PM 3540 NUB Zhang

435 Fld Stdy-Min&Petrol 1.00
34720 PIR LAB 002 ARR

436 Fld Std-Strat&Paleo 1.00-2.00
19287 PIR LEC 015 ARR

442 Earth Surface&Soils 4.00
26694 A R LEC 001 MW 830-10AM 2502 NUB Sheldon
26802 P RW LAB 002 M 3-5PM 3536 NUB
27191 P RW LAB 003 T 1-3PM 3536 NUB
27192 P RW LAB 003 T 1-3PM 5501 NUB

444 Analytical Paleobiol 4.00
31038 A R LEC 001 MW 1130-1PM 1110 BSB Friedman, Wilson
31039 P RW LAB 002 T 2-5PM 1110 BSB
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# Ecology & Evolutionary Biology

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**Courses and Details**

- **Ecology Laboratory** (372): Taught by Allgeier, with lab sections on Wednesdays and Thursdays from 10-12 PM and 1-5 PM. Students enrolled in section 011 or 012 will automatically be enrolled in discussion section 010. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 8 AM and returning at noon.

- **Oceanography** (380): Taught by Lehman, with labs from 230-4 PM on Wednesdays. Students must register in section 001 or 002 to be automatically enrolled in discussion section 003.

- **Evolution** (390): Taught by Carpenet, with labs on Fridays from 8-12 PM. Students must register in section 001 or 022 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 8 AM and returning at noon.

- **Advanced Research** (400): Taught by Harris, with labs on Wednesdays from 11:00-1 PM. Students must register in section 003 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 1 PM and returning at 5 PM.

- **EEB Capstone Seminar** (410): Taught by Tucker and Ostling, with labs on Wednesdays from 230-4 PM. Students must register in section 001 or 021 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 1 PM and returning at 5 PM.

- **Ornithology** (433): Taught by Winger and Gulsun, with labs on Wednesdays from 9-12 PM. Students must register in section 001 or 021 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 1 PM and returning at 5 PM.

- **Woody Plants** (436): Taught by Ibanez, with labs on Wednesdays from 9-12 PM. Students must register in section 001 or 021 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 1 PM and returning at 5 PM.

- **Biol of Fishes** (440): Taught by Ibanez, with labs on Wednesdays from 9-12 PM. Students must register in section 001 or 021 to be automatically enrolled in discussion section 002. Labs meet at the Botanical Gardens, with buses leaving from Rackham Bldg. at 1 PM and returning at 5 PM.
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Economics Department

Economics (ECON)

101 Principles Econ I 4.00 ADVISORY

Students will be auto-enrolled in LEC 100 when they elect DIS 101-115.

There will be three midterms for this course: Thursday October 10, 8:10 - 9:40 PM; Tuesday November 5, 8:10 - 9:40 PM; and Wednesday December 4, 8:10 - 9:40 PM. All exams must be taken on the assigned dates and times. If you cannot take these exams as scheduled, please register for an open section in another lecture of Econ 101. No exceptions will be made to these exam dates and times.

No overrides will be issued for this class.

Students will be auto-enrolled in LEC 200 when they elect DIS 201-211; No overrides will be issued for this class.

There will be three midterms for this course: from 8-10pm on 10/8 & 11/5. All exams must be taken on the assigned dates and times. If you cannot take these exams as scheduled, please register for an open section in another lecture of Econ 101. No exceptions will be made to these exam dates and times.

No overrides will be issued for this class.

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

There will be three midterms for this course: Thursday October 10, 8:10 - 9:40 PM; Tuesday November 5, 8:10 - 9:40 PM; and Wednesday December 4, 8:10 - 9:40 PM. All exams must be taken on the assigned dates and times. If you cannot take these exams as scheduled, please register for an open section in another lecture of Econ 101. No exceptions will be made to these exam dates and times.

No overrides will be issued for this class.

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-infro@umich.edu, or see the override FAQ on our website.

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP
for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

102 Principles Econ II 4.00 ADVISORY
11098 A LEC 100 TTH 1130-1PM 140 LORCH Cho
Students will be auto-enrolled in section 100 when they elect sections 101-111. Midterm exams dates: 6-8pm on 10/2 & 11/7.

24464 P DIS 101 TH 4-530PM 373 LORCH Moran
19501 P DIS 102 F 1130-1PM 2185 NQ Waggar
11100 P DIS 104 F 1-230PM 120 WH Markiewitz
11099 P DIS 105 F 10-1130AM 173 LORCH Olson
11101 P DIS 106 F 830-10AM R2320 BUS Farzana
11102 P DIS 107 TH 530-7PM 373 LORCH Moran
11103 P DIS 108 TH 530-7PM 173 LORCH Wang
11104 P DIS 109 F 830-10AM 373 LORCH Wagar
15654 P DIS 110 TH 230-4PM 1024 DANA Farzana
15655 P DIS 111 TH 1130-1PM 2234 USB Wang

11108 A LEC 200 TTH 10-1130AM 140 LORCH Stevenson
Students will be auto-enrolled in section 200 when they elect sections 201-211. Midterm exams dates: 8-10pm on 9/30 & 11/4.

24466 P DIS 201 F 1130-1PM R0220 BUS Ren
11107 P DIS 202 F 1130-1PM 142 LORCH Ersan
11111 P DIS 204 TH 230-4PM 173 LORCH Ren
14506 P DIS 207 F 10-1130AM R0420 BUS Hasanbasri
11112 P DIS 208 F 1-230PM 373 LORCH Rowberry
11113 P DIS 209 F 1-230PM 173 LORCH Cevallos Fujiy
24467 P DIS 210 TH 1130-1PM 142 LORCH Elayan Balague
11106 P DIS 211 TH 1130-1PM 373 LORCH Rowberry

108 Intro Micro Wkshp 1.00 ADVISORY
20052 PI SEM 001 F 9-10AM 142 LORCH Proulx
Economics of Personal Finance

195 Topics Sem Intro Eco 3.00
29704 PD SEM 001 TTH 4-530PM 1570 NUB Hasanbasri
Data Analytics with R
To be eligible for this course, you must have already passed either Econ 251 or 452 with a C- or better. Please email econundergradoffice@umich.edu for override information to enroll.

Please also note that this course does not count as an elective for the Economics major or minor.

208 Inter Micro Workshop 1.00 ADVISORY
24990 P W SEM 001 F 1-230PM 140 LORCH Dudley
Economics at Work

251 Intr Stat&Metric II 4.00 ENFORCED
11133 A R LEC 100 TTH 1130-1PM G127 AH Asenova
11134 A R DIS 101 F 10-11AM R0420 BUS Foschi
11135 A R DIS 102 F 12-1PM B3560 BUS Foschi
22514 A R LEC 200 TTH 4-530PM AUD C AH Asenova
Students will be auto-enrolled in section 100 when they elect sections 101-102. This class will have evening exams on the following dates: TBD

22515 A R DIS 201 F 3-4PM B856 EQ Lohawala
22516 A R DIS 202 F 1-2PM G168 AH Lohawala
24458 A R DIS 203 F 3-4PM 2336 MH Brinatti
24459 A R DIS 204 F 1-2PM 1436 MH Brinatti

259 Excel Econ&Bus Anal 3.00 ENFORCED
31324 A R LEC 001 TTH 1130-1PM 1570 NUB Wan
Money & Banking 3.00 ENFORCED
11114 A R LEC 001 MW 1130-1PM 1400 CHEM Oudek
320 Survey-Labor Econ 3.00 ADVISORY, ENFORCED
22940 A R LEC 001 MW 1130-1PM 1528 NUB Sedo
Economics Of Crime 4.00 ADVISORY, ENFORCED
30657 A R LEC 001 MW 1-230PM 3254 LSA Hellier
31014 A R DIS 002 F 12-1PM R0210 BUS Martin
31016 A R DIS 003 F 2-3PM B856 EQ Martin
American Industries 4.00 ADVISORY, ENFORCED
26407 A R LEC 001 MW 230-4PM 1528 NUB Adams
26676 A R DIS 002 F 11-12PM 335 WH Mathes
112016 A R DIS 003 F 9-10AM R2310 BUS Mathes
26681 A R DIS 004 F 1-2PM 142 LORCH Jayanti
26682 A R DIS 005 F 2-3PM 142 LORCH Jayanti
International Econ 3.00 ADVISORY, ENFORCED
28026 A R LEC 001 MW 830-10AM 1120 WEILL Deardorff
360 Developing Economic 3.00 ADVISORY, ENFORCED
28027 A R LEC 001 TTH 830-10AM 1400 CHEM Bergquist
Public Finance 3.00 ADVISORY, ENFORCED
30658 A R LEC 001 MW 830-10AM AUD B AH Stevenson
395 Topics in Microecon 3.00 ADVISORY, ENFORCED
28028 A R LEC 001 TTH 1-230PM 2548 NUB Hasanbasri
Mkts&Inst Through Experimental
This class will require access to laptops in class, please be sure to bring one with you to eat meeting. Students without laptops of their own can borrow one from either the LSA Laptop Loan Program (https://lsa.umich.edu/content/dam/lsa-site-assets/documents/unit-priorities/Laptop%20Program.pdf) or Instructional Support Services (https://lsa.umich.edu/iss/equipment-loan---reservation-.html).

398 Strategy 4.00 ADVISORY, ENFORCED
29821 A R LEC 001 TTH 830-10AM 296 WEISER Peralta
29822 P RW DIS 002 F 2-3PM 1064 EH Raghuraman
29823 P RW DIS 003 TH 11-12PM B856 EQ Raghuraman

401 Intermed Micro Thr 4.00 ADVISORY, ENFORCED
Students will be auto-enrolled in the lecture section 001 when they elect a discussion section; Students must attend exams from 8-10pm on 10/10 & 11/7

402 Intermed Macro Thr 4.00 ADVISORY, ENFORCED
Students will be auto-enrolled in section 100 when they elect sections 101-110.

Midterm exams will be held in class on the following dates: (TBD). Please plan accordingly.

Do not take this class if you have taken ECON 405 before!!!
Do not take this class if you have taken ECON 406 before!!! Students will be auto-enrolled in section 001 when they elect sections 002-003.
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This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Narratives around combating human trafficking are narrowly construed, with white cisgender girls typically portrayed as the victims of heteronormative sex trafficking. Such narratives, and interventions meant to aid trafficking victims, overlook LGBTQ+ communities and fail to address their needs. In this class, students will work with stakeholders and incorporate insights from law, social work, public policy, health sciences, and other fields to identify interventions designed to help LGBTQ+ trafficking victims.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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U of M Schedule of Classes  Page 211  of  489  FA 2019 2260 09-09-2019 12:09 21610809
Food in Germany

300 Ger Grammar&Comp
11371 P W REC 001 MTHF 11-12PM 2175 NQ Swennes
16289 P W REC 002 TWTHF 9-10AM 2011 MLB Gell

303 Ger Cult & Arts
26520 PD W SEM 001 TTH 230-4PM 2401 MH Barndt

Between the Wars
31404 P W SEM 002 TTH 1130-1PM 1185 NQ Hell

Roman Empire

304 Studies Germ Culture
22420 P W SEM 001 M 5-7PM AUD D AH Amrine

Freud, Jung & the Unconscious
This class will meet on the following Mondays: 9/9, 9/16, 9/23, 10/7, 10/21
31405 P W SEM 002 W 4-6PM AUD D AH Amrine

Expressionist Art in Munich
This class will meet on the following Wednesdays: 9/4, 9/11, 9/18, 9/25, 10/2, 10/9, 10/16
31406 P W SEM 003 W 4-6PM AUD D AH Amrine

Art & Politics: Joseph Beuys
This class will meet on the following Wednesdays: 10/23, 10/30, 11/6, 11/13, 11/20, 12/4, 12/11
31407 P W SEM 004 M 5-7PM AUD D AH Amrine

Rudolf Steiner
This class will meet on the following Mondays: 10/28, 11/4, 11/11, 11/18, 11/25, 12/2, 12/9
305 GermSocietyPolitics
31408 PI W LEC 001 TH 4-6PM 1230 USB Federhofer

Post-War Terrorism in Germany
This mini-course meets on Thursdays, September 5 through October 17.

306 Conversation
21647 PI W REC 001 F 2-3PM 2114 MLB Irwin
23054 PI W REC 002 W 12-1PM B122 MLB Gell

309 Imagination
28352 P W SEM 001 MW 1-230PM 1423 EQ Amrine

310 Studies in Ger Cult
11372 PI W REC 001 W 3-5PM 2022 STB Dischler

Munich
For Max Kade House students only.
315 Intro to German Lit
19200 P W SEM 001 MW 4-530PM 1155 NQ Mills

325 Intern German
11373 P W REC 001 MW 10-11AM 1567 NUB Rodena-Kraskan

German Science Fiction/Fantasy
16960 PI W REC 004 WF 1-230PM G463 MH Rastalsky

German for Engineers I
17942 PI W REC 005 TTH 4-530PM R2320 BUS Mills

German Bees
16626 PIRW REC 006 TTH 1-230PM 2336 MH Federhofer

Soccer
329 Independent Study

333 Fascist Cinemas
22923 AI LEC 001 TTH 10-11AM LEC RM 2 MLB von Moltke
22924 AI LAB 002 W 4-7PM LEC RM 2 MLB von Moltke
22925 AI DIS 003 F 12-1PM 1175 NQ Hennessy
22926 AI DIS 004 F 1-2PM 1175 NQ Hennessy

350 Business German
11376 P RW REC 001 MW 12-1PM 2212 MLB Federhofer

351 Prac Business Ger
11377 P RW REC 001 F 8-9AM ARR Swennes
28354 P W REC 002 F 8-10AM ARR Swennes
28355 P W REC 003 F 4-7PM ARR Swennes

357 Tutoring HS and K-6
20124 PIRW LEC 001 F 3-4PM 3310 MLB Rodena-Kraskan

358 Assistantship DSAA
22981 P W SEM 001 F 8-9AM ARR Rodena-Kraskan

375 Celtic/Nordic Myth
16953 P W LEC 001 TTH 230-4PM 2260 USB Gull

379 Sports, Pol, Society
24082 A LEC 001 TTH 2-3PM 1210 CHEM Markovits
24084 P W DIS 002 TH 3-4PM 4128 LSA Markovits
24086 P W DIS 003 TH 4-5PM 4128 LSA VanLoozen
24088 P W DIS 004 TH 5-6PM 3207 LSA Sharp
24090 P W DIS 005 TH 6-7PM 4128 LSA Wampler
24115 P W DIS 007 F 10-11AM 4154 LSA Shin
24117 P W DIS 008 F 9-10AM 4128 LSA Sharp
24119 P W DIS 009 F 12-1PM 4128 LSA Shin
24121 P W DIS 010 F 1-2PM 4128 LSA Wampler
28362 P W DIS 011 F 2-3PM 4128 LSA Kemp
30082 P W DIS 012 F 3-4PM 4128 LSA Kemp

386 Fairy Tales
22241 A LEC 001 TTH 12-1PM 1020 SPH2 Ewing
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## History Department

**History (HISTORY)**

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

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

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

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Section 011: Reserved for CSP/Bridge students only. CSP students can sign up for this CSP section through History 101 (without permission) or write to Prof. Mir (fmir@umich.edu) for permission to register in INTLST 205.011.

### 103 Intro to History-HU 4.00

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### 195 Writing of History 4.00

**ALL SECTIONS OF HISTORY 195 ARE RESTRICTED TO FIRST-YEAR STUDENTS.**

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Immigration Law Research Lab
Interested students must contact the instructor at jessehg@umich.edu to request permission to register.

442  Mdvl Near East
26604  P W LEC 001 TTH  10-1130AM  G128 AH  Lindner
445  Topics In History
31760  P W LEC 001 W   4-7PM    G437 MH  Gaggio
What is Capitalism?
34862  P W LEC 002 MW  1130-1PM  1303 MH  Ricco'
Global Fascism
442  Japan to 1700
26312  P W LEC 001 W   4-7PM    G115 AH  Tonomura
469  Precolonial SE Asia
28458  P W LEC 001 TH  1-4PM    G463 MH  Lieberman
Early SE Asian Hist Problems
472  Asian Hist Topics
28459  P W LEC 001 MW  1-230PM  3347 MH  Chang
476  Amer Bus History
16123  PIRW REC 001 TTH  1130-1PM  B1570 BUS  Hinesly
HISTORY 476 meets with LHC 412.
481  Europe Hist Topics
32848  P W LEC 001 TTH  1-230PM  1436 MH  Puff
The German Discovery of Sex
487  Convers & Chrsnty
31975  P W SEM 001 F   4-7PM    3265 USB  Mills
491  HistoryLabs 2
31321  PI W SEM 001 TH  1-4PM    G421B MH  Lasitter
Police Viol Social Justice-MI
Interested students must contact the instructor at mlassite@umich.edu to request permission to register.

496  Hist Colloquium
26788  PDRW SEM 001 T   3-6PM    270 TAP  Cole
Decolonization After WWII
31304  PDR SEM 002 W   4-7PM    4128 LSA  Wilgen
Indians and Empires
497  Hist Colloquium
24156  P RW SEM 002 MW  4-530PM  2135 NQ  Jones
Mobility Migrations Af Am Hist
31306  PD W SEM 003 TTH  530-7PM  G449 MH  Dash Moore
From Ghetto to Suburb
36272  P R SEM 004 W   1-4PM    1508 EQ  Ballinger
Making the Mod Mediterranean
499  St Honors Colloquium
11427  PD SEM 001 T    4-6PM    G168 AH  Ballinger
Colonial Latin Amer
25324  P RW LEC 001 TTH  1130-1PM  1250 USB  Mills
357  Asian Topics
36030  P W LEC 001 W   4-7PM    G115 AH  Tonomura
Japan to 1700
594  Topics in History
21490  PIRW SEM 001 F   1-4PM    138 HUTCH  Garskof
Immigr Law Research Clinic
Interested graduate students must contact the instructor at jessehg@umich.edu to request permission to register.

29072  P W SEM 002 T    4-7PM    G437 MH  Al-Rustom
History, Memory, and Silence
29832  P W SEM 003 T    4-7PM    3265 USB  Mills
Conversions and Christianities
30193  P W SEM 004 MW   10-1130AM  2271 AH  Cassel
War Rebellion & Revol in China
32263  P W SEM 005 TH   1-4PM    G463 MH  Lieberman
Prob in Early SE Asian History
32264  P W SEM 006 W    4-7PM    G437 MH  Gaggio
What is Capitalism?
32613  P W SEM 007 MW   1130-1PM  G421B MH  Hawes
Empire and its Discontents
36359  P W SEM 008 T    10-1PM   2608 HH  Israel
Modern Scottish Culture
600  Records & Archives
11428  A W LEC 001 M    1-4PM    2114 MLB  Garcia
32217  P W DIS 002  ARR ARR  Garcia
615  Intr Comparativ Stdy
24158  PD REC 001 W    1-4PM    1460 MH  Northrop, Sinha
622  Topc Wrd Ec Hist I
32071  P W REC 001 MW  230-4PM  471 LORCH  Hausman, Bleakley
641  Stdys 20 C Euro Hist
31754  P W REC 001 T    4-7PM    2104 MLB  Eley
688  Stdy 20 C Am Hist

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History Of Art Department

History of Art (HISTART)

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

194 First Year Seminar 3.00 ADVISORY
28264 P RW SEM 001 TTH 230-4PM 210 TAP Holmes
Antiques Road Show
33189 P RW SEM 003 TTH 1-230PM 210 TAP Doris
The Elements In/Of African Art

201 Great Monuments 3.00
22877 P W LEC 001 TTH 1-230PM 180 TAP Timmermann

211 Gen&Pop Cul 4.00
2695 A LEC 001 MW 10-1130AM AUD B AH Ward
2696 P W DIS 002 W 12-1PM G026 TISCH Volk
2697 P W DIS 003 W 1-2PM G026 TISCH Volk
2698 P W DIS 004 TH 10-11AM 130 TAP Gillet
2699 P W DIS 005 TH 11-12PM 130 TAP Pounds
2700 P W DIS 006 TH 3-4PM 130 TAP Pounds
2701 P W DIS 007 TH 4-5PM 130 TAP Volk
2702 P W DIS 008 TH 5-6PM 130 TAP Volk
2703 P W DIS 009 F 10-11AM G026 TISCH Gillet
30139 P W DIS 010 F 11-12PM G026 TISCH Gillet

216 Contested Spaces 4.00
31875 S LEC 001 MW 1-230PM AUD D AH Leon
31876 P W DIS 002 M 3-4PM G026 TISCH Leon
31877 P W DIS 003 T 11-12PM 130 TAP Leon
31878 P W DIS 004 T 12-1PM 130 TAP Leon
31879 P W DIS 005 M 4-5PM 130 TAP Leon

222 Intro Roman Arch 4.00
26599 A LEC 001 TTH 10-1130AM LEC RM 2 MLB Holmes
26600 P W DIS 002 F 2-3PM 130 TAP Oberlin
26601 P W DIS 003 W 10-11AM 2163 AH Oberlin
26602 P W DIS 004 TH 9-10AM 7603 HH Moskowitz
26603 P W DIS 005 W 9-10AM 2163 AH Moskowitz

250 Ital Renaissance Art 4.00
21386 S LEC 001 TTH 1130-1PM LEC RM 2 MLB Holmes
21403 P W DIS 002 TH 1-2PM 130 TAP Cornish
31655 P W DIS 003 T 2-3PM 130 TAP Cornish
21404 P W DIS 004 F 10-11AM 130 TAP Cornish

271 Modernism 4.00
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.
11435 A LEC 001 TTH 1-230PM AUD D AH Lay
16041 P W DIS 002 T 3-4PM 130 TAP Koel
16042 P W DIS 003 T 4-5PM 130 TAP Khandelwal
16043 P W DIS 004 W 10-11AM 150 TAP Koel
16044 P W DIS 006 W 3-4PM G026 TISCH Khandelwal
24449 P W DIS 007 W 4-5PM G026 TISCH Khandelwal

292 Intro Japanese Art 4.00
28393 S LEC 001 MW 1130-1PM UMMA AUD Carr
28394 P W DIS 002 M 1-2PM 130 TAP Berardi
28395 P W DIS 003 M 2-3PM 130 TAP Berardi
28396 P W DIS 004 T 2-3PM 130 TAP Bernhaut
29881 P W DIS 005 W 10-11AM 130 TAP Bernhaut

299 Experiential Study 1.00-3.00
SI IND + ARR ARR

304 The Art of Yoga 3.00
25168 P W LEC 001 TTH 10-1130AM 1436 MH Chanchani

305 Himalayan Aesthetics 3.00 ADVISORY
32096 P W SEM 001 TTH 230-4PM 4207 AH Chanchani

352 Art and Philosophy 3.00
20840 P W SEM 001 MW 230-4PM 49 UMMA Willette

376 Dada & Surrealism 3.00
31863 P W LEC 001 MW 1-230PM 180 TAP Biro

380 Min-Myc Arch 3.00 ADVISORY
30719 P W LEC 001 TTH 230-4PM G168 AH Abell

393 Undergrad Seminar 3.00
25086 P W SEM 001 MW 230-4PM 270 TAP Ward
Art before the First World War
31804 P W SEM 003 MW 1130-1PM 210 TAP Miller
Arabesques/Airplanes/N Africa
22898 P W SEM 004 TH 4-530PM 49 UMMA Willette
Chambers of Wonder
25080 P W SEM 005 MW 10-1130AM B804 EQ Crasnow
Art & Resistance
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### Museums (MUSEUMS)

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Honors Program

College Honors (HONORS)

135 Ideas in Honors  1.00  ADVISORY
17576 P RW SEM 002 TH  4-530PM  210 TAP  King, LaVaque-Manty
Guns in America
This section does not start the first week of classes. This section meets 9/26 through 11/21.

16194 P RW SEM 003 F  10-1130AM  210 TAP  Arakali, LaVaque-Manty
Biomedical Innovation
This section does not start the first week of classes. This section meets 9/27 through 11/22.

16195 P RW SEM 004 W  4-530PM  2469 MH  Brauer, LaVaque-Manty
Today's Media Economy
This section does not start the first week of classes. This section meets 9/25 through 11/20.

16667 P RW SEM 005 T  230-4PM  G421B MH  Hale, LaVaque-Manty
How does Science Work 101
This section does not start the first week of classes. This section meets 9/24 through 11/26 with no class on 10/15.

16196 P RW SEM 006 M  4-530PM  2469 MH  Jacob, LaVaque-Manty
Sustain,Hlth,&the Changing Env
This section does not start the first week of classes. This section meets 9/23 through 11/25 with no class on 10/14.

17190 P RW SEM 007 F  1130-1PM  1303 MH  Burton, LaVaque-Manty
Cursed Mummies to Hidden Treas
This section does not start the first week of classes. This section meets 9/27 through 11/22.

170 First Yr Experience  1.00
31928 P RW SEM 001 W  3-5PM  1306 MH  Mallette
This section does not start the first week of classes. This section meets 9/11 through 10/25.

31951 P RW SEM 002 F  2-4PM  1306 MH  Mallette
This section does not start the first week of classes. This section meets 9/11 through 10/25.

231 Honors Core HU  4.00
31026 A LEC 001 MW  10-1130AM  1250 USB  Mallette
Reading the Quran
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

31027 P RW DIS 002 TH  3-4PM  5521 HH  Farghadani, Mallette
Reading the Quran
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

31028 P RW DIS 003 TH  4-5PM  4211 AH  Farghadani, Mallette
Reading the Quran
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

31030 P RW DIS 004 F  11-12PM  G421B MH  Budak, Mallette
Reading the Quran
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

31031 P RW DIS 005 F  12-1PM  G421B MH  Budak, Mallette
Reading the Quran
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

232 Honors Core NS  4.00
24050 A R LEC 001 TTH  1-230PM  1640 CHEM  MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

24058 P RW DIS 002 T  9-10AM  418 WH  Cosman, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

24059 P RW DIS 003 T  12-1PM  418 WH  Cosman, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

24060 P RW DIS 004 TH  9-10AM  418 WH  Greiner, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

24061 P RW DIS 005 F  10-11AM  418 WH  Bettle, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

31032 P RW DIS 006 F  11-12PM  418 WH  Bettle, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

31033 P RW DIS 007 F  1-2PM  418 WH  Greiner, MacLatchy
Your Inner Ape
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-007.

233 HON Core ID  4.00
29606 A LEC 001 MW  10-1130AM  1060 BSB-TBL  Olsen, Eickmeyer
Hlth,Biol,Soc:What is Cancer?
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

29607 P RW DIS 002 F  10-11AM  4207 AH  Salman, Olsen, Eickmeyer
Hlth,Biol,Soc:What is Cancer?
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

29608 P RW DIS 003 F  11-12PM  4207 AH  Salman, Eickmeyer, Olsen
Hlth,Biol,Soc:What is Cancer?
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.

29609 P RW DIS 004 F  10-11AM  4175 AH  Hilfrank, Olsen, Eickmeyer
Hlth,Biol,Soc:What is Cancer?
Students are auto-enrolled in lecture 001 when they elect one of discussions 002-005.
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Hollerman, Hoffmann

Detroit and Gentrification Now

Students are auto-enrolled in lecture 001 when they elect one of discussions 002-003.

Controversy in Scientific Disc

Students are auto-enrolled in lecture 010 when they elect one of discussions 011-016.

Evolution of Cognition

Students are auto-enrolled in lecture 001 when they elect one of discussions 002-003.

Controversy in Scientific Disc

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Research

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Research

Students are auto-enrolled in lecture 010 when they elect one of discussions 011-016.

Research

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Research

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Research

Students are auto-enrolled in lecture 001 when they elect one of discussions 002-003.

Research

Students are auto-enrolled in lecture 010 when they elect one of discussions 011-016.
Humanities Institute

Institute For The Humanities (INSTHUM)

311  Topics Interdisc Stu  1.00

24382  P W SEM 001  M  2-4PM  ARR  Kim

The Unended Korean War
This mini-course takes place every Monday, October 21-December 2.

36097  P W SEM 002  W  2-4PM  ARR  Krugliak

Provocations & Other Acts
This mini-course takes place every Wednesday, October 23-December 11.
## International Institute
### International and Regional Studies (INTLRGN)

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**Notes:**
- ADVISORY courses require instructor approval.
- LAB FEE columns are not provided in the table.
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# College of Literature, Science, and the Arts

## Geography (GEOG)

### 145 - Int to Intnl Studies 3.00

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Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20139 - P W DIS 002 TH 230-4PM 355 WEISER Yim

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20140 - P W DIS 003 TH 230-4PM 355 WEISER Noray

Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20141 - P W DIS 004 TH 830-10AM 355 WEISER Baik

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20142 - P W DIS 005 F 230-4PM 355 WEISER Marsman

Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20143 - P W DIS 006 TH 1-230PM 455 WEISER Baik

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20144 - P W DIS 007 F 4-530PM 355 WEISER Marsman

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20145 - P W DIS 008 F 1-230PM 455 WEISER Marsman

Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20146 - P W DIS 009 TH 1130-1PM 355 WEISER Yim

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20147 - P W DIS 010 TH 830-10AM 455 WEISER Noray

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 20148 - P W DIS 011 TH 830-10AM 455 WEISER Noray

Please note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 21124 - P RW DIS 012 TH 10-1130AM 455 WEISER Uehling

This section is reserved for Honors students only. Also, note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

### 201 Intro Geography 4.00

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# LS&A First Year Seminars

**Applied Liberal Arts (ALA)**

### 101 Guide - Liberal Arts (ALA)

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### 102 Student in the Univ

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

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### 104 Intro to Research

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This class is taught entirely online.

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ALA 107 will be taught every other week, beginning Sept 4th. Enrollment restricted to FY WISE RP students.

In addition to the regular class times, there will be two required sessions on Tuesday evenings from 6:00-8:00pm.

### 115 Finance Savvy Student

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### 122 Intragrp Dialogue

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Interested students must fill out an online request at www.igr.umich.edu. Due to high demand, students who do not attend the mass meeting on the first day of class will be dropped from the course. If you have questions, please contact Student Administration Assistant @ igrcourses@umich.edu.

### 171 Make the Most of UM

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This class will meet from the week of Sept 3 through Oct 17 in East Quad, B852.

This class will meet from the week of Sept 3 through Oct 17 in South Quad, Game Room.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, G023.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Living Room.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Room 2060.

This class will meet from the week of Sept 3 through Oct 17 in Newberry, Andre Lorde Lounge.

This class will meet from the week of Sept 3 through Oct 17 in East Quad, 1506.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, G027.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, G023.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Living Room.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Room 2060.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, Asubuhi lounge.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, G027.

This class will meet from the week of Sept 3 through Oct 17 in Couzens, Room 1417.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Living Room.

This class will meet from the week of Sept 3 through Oct 17 in Alice Lloyd, Room 2060.

This class will meet from the week of Sept 3 through Oct 17 in West Quad, B834.
This class will meet from the week of Sept 3 through Oct 17 in East Quad, B852.

175 BLI Leadership Lab 1.00 ENFORCED
32323 P R SEM 001 M 7-9PM 110 WEISER-TBL Mahalingam
To apply to become a Barger Leadership Lab Member complete this online form for membership:
https://umforms.tfaforms.net/113.
32324 P R SEM 002 T 6-8PM 110 WEISER-TBL Mahalingam
To apply to become a Barger Leadership Lab Member complete this online form for membership:
https://umforms.tfaforms.net/113.
32325 P R SEM 003 W 4-6PM 296 WEISER Mahalingam
To apply to become a Barger Leadership Lab Member complete this online form for membership:
https://umforms.tfaforms.net/113.

206 Hlth Mentor & Exper 1.00
33185 PI LEC 001 M 530-630PM 1413 COUZENS Walton

210 Def Crit Gilb Issues 2.00
26508 PD LEC 001 F 1-230PM AUD D AH Peters

220 Foundations IGR 3.00 ENFORCED
20029 P RW SEM 001 TTH 1-230PM G127 AH Kime
28678 P RW SEM 002 TTH 4-530PM 1460 MH Kime

223 Entrepreneur Crvty 3.00
27073 AI LEC 001 MW 11-12PM AUD A AH Fretz
27074 PI W DIS 002 F 12-1PM G127 AH Cease
27075 PI W DIS 003 F 1-2PM G127 AH Cease
27076 PI W DIS 004 F 12-1PM 1449 MH Cutter
27077 PI W DIS 005 F 1-2PM 1449 MH Cutter
27078 PI W DIS 006 F 12-1PM 3330 MH Habhab
27079 PI W DIS 007 F 1-2PM 3330 MH Habhab
27080 PI W DIS 008 F 1-2PM 3333 MH Newman
27081 PI W DIS 009 F 1-2PM 3333 MH Newman

225 Undergrad Internship 1.00
19860 PD SEM 001 ARR ARR Barron
29128 PD SEM 002 ARR ARR Barron

228 Conflict & Coexist 3.00
26838 P RW SEM 001 TTH 230-4PM B115A MLB Hicks

230 STEM Transitions 1.00
28688 P RW SEM 001 TH 1-230PM 2347 MH Salvatore

This class will meet every other week beginning Sept 6, and will include two eventing lectures to be announced.

240 Live Well in College 2.00
32331 P RW LEC 001 T 2-3PM 4404 RAND Ludwig

256 Innovator's Toolkit 3.00
27178 PIR LEC 001 MW 4-530PM 4404 RAND Ludwig

264 ID Topics in ALA 3.00
33928 P W LEC 001 MW 4-530PM 1505 NUB Finn

Obesity-Sci, Cult, Politics of

270 ALA Topics 1.00 ENFORCED
26922 PIRW LEC 004 W 3-5PM 2310 SEB Oehrli

Fake News, Lies, & Propaganda

29577 PIR W LEC 001 TH 1-2PM 2330 MH Bauer

STEM Comm CHEMISTRY
Seats reserved for students in the General Chemistry STEM Comm learning community. Please see the website (https://sites.google.com/umich.edu/stem-comm/home) or contact Marybeth Bauer with questions: bauermb@umich.edu.
33448 PIR LEC 013 W 1-2PM 2330 MH Bauer

STEM Comm PHYSICS
For information pertaining to obtaining a permission for this class, please contact Marybeth Bauer (bauermb@umich.edu).

290 Public Speaking 3.00
31419 PI W LEC 001 MW 1-230PM 1507 EQ Moshin

292 Arg & Debate 3.00
31430 P W LEC 001 TTH 10-1130AM 706 BMT Moshin

315 Popular Science 3.00
31418 P W LEC 001 TTH 1-230PM G026 TISCH Gibelyou

320 IGR Facilitation 3.00 ADVISORY
18399 PI W SEM 001 MW 230-4PM 2271 AH Hicks

Admission by application. PSYCH 122/SOC 122/ALA 122 strongly encouraged. Mandatory Retreat September 14th-15th.

321 Dialog Prac 4.00 ADVISORY
An additional 15 hours of seminar TBA. Questions regarding this course should be directed to the Intergroup Relations Program, 936-1875, 1214 S. University Ave, 2nd Floor, Suite B, Ann Arbor, MI 48104.

Admission by application. PSYCH 122/SOC 122/ALA 122 strongly encouraged. Mandatory Retreat September 7th-8th.

18400 PI SEM 001 M 230-530PM 3463 MH Hwang

321 Dialog Prac 4.00 ADVISORY
P SEM 001 W 230-530PM ARR

322 Advanced IGR Prac 1.00-4.00 ADVISORY
19302 PI LAB 002 W 230-430PM ARR Hwang
Contact Nitesh Singh at niteshs@umich.edu for room assignment.

323 IGR Directed Study 1.00-4.00 ADVISORY

325 Education to Work 1.00

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### LSA II: Chinese Studies

#### Chinese Studies (CCS)

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### Notes:
- Meets with MENAS 591-001.
- Meets with MENAS 591-002.
- Meets with MENAS 591-003.

### Schedule:
- **Conflict and Comics**: 308, P W LEC 001 TTH 230-4PM B116 MLB Barzilai
- **MENAS Topics in HU**: 332, P LEC 001 MW 230-4PM 1436 MH Roby
- **Earth Odysseys**: 461, P SEM 001 M 2-5PM 2228 SEB Stanzler, Fahy
- **Lrn Character Play**: 462, P LAB 001 TTH 1-230PM 4212 SEB Stanzler, Fahy
- **Arab-Israeli Conflict**: 463, P LAB 001 WF 1130-1PM 2228 SEB Stanzler
- **ME Comp Perspectives**: 493, P W LEC 001 M 2-4PM 555 WEISER Szpiech
- **Sr Honors Thesis**: 495, SI IND + ARR ARR
- **ME Comp Perspectives**: 593, P RW LEC 001 M 2-4PM 555 WEISER Szpiech
- **Directed Reading**: 595, SI IND + ARR ARR
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**LSA II: Nam Center Korean Studies Program**

**Korean Studies (KRSTD)**

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- **Time**: 5-730PM
- **Location**: 455 WEISER
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**LSA II: South Asian Studies**

**South Asian Studies (SAS)**

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- **698 IR IND + ARR ARR**
  - Indep Study: S Asia
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  - South Asia MA Essay
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LSA II: Prog in Internat'l & Comparative Studies

International Studies (INTLSTD)

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Please note that there is not a time conflict between discussion and lecture. The discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. On days when discussion is held, lecture will not be. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

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This section is reserved for Honors students only. Also, note that the discussion sections for this class will meet approximately 8 times during the Fall 2019 term, instead of the Thursday lecture. Dates will be noted on the Fall 2019 syllabus. Questions regarding this class should be directed to is-advising@umich.edu.

170 INTLSTD Spec Topics

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Section 011: Reserved for CSP/Bridge students only. CSP students can sign up for this CSP section through History 101 (without permission) or write to Prof. Mir (fmir@umich.edu) for permission to register in INTLSTD 205.011.

209 Death & Immortality

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### Department of Linguistics

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For permission to register, contact Maria Steele at msteele@umich.edu.
Mathematics Department

Mathematics (MATH)

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

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

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

105  Data,Fncns,Graphs

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It is recommended that you enroll in any section that fits your schedule as registration is restricted throughout the registration period. If you do not see space available in a section that fits your schedule, we recommend that you check back regularly as space will continue to open up throughout the registration period. A waitlist may open up the week prior to courses. We do not entertain waitlist requests prior to that period.

22181  

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Evening exams for Math 115: 8-10pm on Mon., Oct 7 and Mon., Nov 11. Avoid scheduling any class that conflicts with these exams.

### 115 Calculus I

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23967 P LEC 004 TTHF 830-10AM 3314 MH Wen 
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11503 P LEC 005 M 830-10AM 3314 MH Scheiwiller 
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Evening exams for Math 115: 8-10pm on Mon., Oct 7 and Mon., Nov 11. Avoid scheduling any class that conflicts with these exams.  
11504 P LEC 006 MWF 830-10AM 2325 MH Le 
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23968 P LEC 008 TF 830-10AM 2436 MH Trigos-Raczkowski 
P LEC 008 W 830-10AM 2437 MH 
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11505 P LEC 007 M 830-10AM 2427 MH Norwood 
P LEC 007 TTH 830-10AM 2325 MH 
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11506 P LEC 009 TTH 830-10AM 3460 MH Liu 
P LEC 009 F 830-10AM 3451 MH 
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11507 P LEC 010 MW 830-10AM 2333 MH McMillan 
P LEC 010 TH 830-10AM 2427 MH 
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11508 P R LEC 011 MWF 830-10AM 2449 MH 
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11509 P LEC 012 MTTH 830-10AM 3451 MH Gordon 
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11510 P LEC 013 TWF 830-10AM 3356 MH 
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11512 P LEC 016 MWF 830-10AM 3460 MH Han
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23979 P LEC 044 TTHF 1130-1PM 3314 MH Weiss

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11531 P LEC 045 M 1130-1PM 3314 MH Tsouvalas
P LEC 045 WTH 1130-1PM 3427 MH

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Evening exams for Math 115: 8-10pm on Mon., Oct 7 and Mon., Nov 11. Avoid scheduling any class that conflicts with these exams.

11532 P LEC 046 MWF 1130-1PM 2325 MH Ginsberg

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11533 P LEC 047 M 1130-1PM 2427 MH Aponte
P LEC 047 TTH 1130-1PM 2325 MH

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23980 P LEC 049 TF 1130-1PM ARR
P LEC 049 W 1130-1PM ARR

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23982 P LEC 051 MWF 1130-1PM 2449 MH

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23989 P LEC 052 MTTH 1130-1PM 3451 MH Zhang

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23981 P LEC 053 TWF 1130-1PM 3356 MH Prokhorov

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11534 P LEC 056 MWF 1130-1PM 3460 MH Huang

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23085 P LEC 057 MTTH 1130-1PM 2353 MH Megginson

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23092 P LEC 058 TWF 1130-1PM 2347 MH Silverman

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23088 P LEC 061 MWF 1-230PM 3302 MH Carlisle

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11535 P LEC 062 M 1-230PM 3427 MH

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23087 P LEC 064 TTHF 1-230PM 3314 MH Kubena

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17620 P LEC 065 M 1-230PM 3314 MH Le

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17621 P LEC 066 MWF 1-230PM 2325 MH

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23086 P LEC 063 W 1-230PM 3411 MH

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26587 P  LEC 065  MWTH  4-530PM  2353 MH  Nguyen

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23985 P  LEC 099  TTH 6-8PM  3448 MH  Guzman

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23411 PDR LEC 170  MWF  9-11AM  1096 EH  Lofton

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24101 PDR LEC 171  MWF  11-1PM  1096 EH  Lofton

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145  Houghton Calc Wkp I  2.00  ADVISORY
17947 PD W  LAB 001  MW  3-5PM  2866 EH  Conger
Enrollment for this course is by waitlist only. Instructor Permission required.
17948 PD W  LAB 002  TTH  1-3PM  1856 EH  Conger
Enrollment for this course is by waitlist only. Instructor Permission required.

147  Interest Theory  3.00  ADVISORY
11558 P  W  LEC 001  MWF 12-1PM  1372 EH  Qiu
156  App Honors Calc II  4.00  ADVISORY
11559 P  W  LEC 001  MTWF 10-11AM  1372 EH  Krasny
Evening exams for Math 156 are from 6-8PM on Wednesday, October 02 and November 13. Avoid scheduling any class that conflicts with these exams.

11560 P  W  LEC 002  MTWF  11-12PM  1372 EH  Barannyk
Evening exams for Math 156 are from 6-8PM on Wednesday, October 02 and November 13. Avoid scheduling any class that conflicts with these exams.

24219 P  W  LEC 003  MTWF  8-9AM  2062 PALM  Guo
Evening exams for Math 156 are from 6-8PM on Wednesday, October 02 and November 13. Avoid scheduling any class that conflicts with these exams.

24220 P  W  LEC 004  MTWF  9-10AM  2062 PALM  Guo
Evening exams for Math 156 are from 6-8PM on Wednesday, October 02 and November 13. Avoid scheduling any class that conflicts with these exams.

175  Intro to Cryptology  4.00  ADVISORY
16964 PD W  LEC 001  MW  10-1130AM  1856 EH  Weigandt
175  Intro to Cryptology  4.00  ADVISORY
P  W  LEC 001  TH  10-1130AM  1856 EH  Weigandt
Enrollment in this class is managed via waitlist only & dependent on permission of an Honors advisor.

175  Intro to Cryptology  4.00  ADVISORY
18778 PD W  LEC 002  MW  1130-1PM  1856 EH  Weigandt
175  Intro to Cryptology  4.00  ADVISORY
P  W  LEC 002  TH  1130-1PM  1856 EH  Weigandt
Enrollment in this class is managed via waitlist only & dependent on permission of an Honors advisor.

185  Honors Calc I  4.00  ADVISORY
22274 PD LEC 001  MW  230-4PM  3180 AH  Heffers
Registration in Math 185 managed via waitlist only and dependent on permission by the Math Department or Honors Advisors.

214  App Linear Algebra  4.00  ADVISORY
16038 P  RW  LEC 001  MWF  1-2PM  2062 PALM  Zheng, Strauss
214  App Linear Algebra  4.00  ADVISORY
P  RW  LEC 001  T  1-2PM  2062 PALM  Zheng, Strauss
Requests for overrides into this course must be directed to the IOE Department.

Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.

Evening exams for Math 214: 6-8pm on Mon, Oct 7 and Mon, Nov 4. Avoid scheduling any class that conflicts with these exams.

214  App Linear Algebra  4.00  ADVISORY
Requests for overrides into this course must be directed to the IOE Department.

Math 214 is reserved for IOE and CSE students only. Enrollment for this course is controlled by IOE and CSE, please contact them directly with enrollment inquiries.

Evening exams for Math 214: 6-8pm on Mon, Oct 7 and Mon, Nov 4. Avoid scheduling any class that conflicts with these exams.

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Requests for overrides into this course must be directed to the IOE Department.
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

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U of M Schedule of Classes Page 267 of 489  
FA 2019 2260 09-09-2019 12:09 21610809
with these exams.

11590 P W LAB 073 TH 1-2PM B735 EH Butt
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11591 P W LAB 074 TH 2-3PM B735 EH Butt
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11592 A LEC 080 MWF 2-3PM 1360 EH Minoccheri
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11593 P W LAB 081 TH 10-11AM B735 EH Jiang
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11594 P W LAB 082 TH 11-12PM B735 EH Jiang
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11595 P W LAB 083 TH 3-4PM B735 EH Jiang
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11596 P W LAB 084 TH 4-5PM B735 EH Jiang
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11597 A LEC 090 MWF 3-4PM 1360 EH Minoccheri
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11598 P W LAB 091 T 10-11AM B735 EH Zaitzeff
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11599 P W LAB 092 T 11-12PM B735 EH Zaitzeff
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11600 P W LAB 093 T 3-4PM B735 EH Zaitzeff
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

11601 P W LAB 094 T 4-5PM B735 EH Zaitzeff
EVENING EXAMS FOR MATH 215: 6 - 8pm on Thurs, Oct 10 and Thurs, Nov 7. Avoid scheduling any class that conflicts with these exams.

216 Intro Diff Equat 4.00 ADVISORY, ENFORCED

11602 A R LEC 010 MWF 9-10AM 2260 USB Piltz
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11603 P RW LAB 011 TH 8-9AM B745 EH Guo
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11604 P RW LAB 012 TH 9-10AM B745 EH Guo
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11605 P RW LAB 013 TH 1-2PM B745 EH Guo
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11606 P RW LAB 014 TH 2-3PM B745 EH Guo
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11607 A R LEC 020 MWF 10-11AM 2260 USB Piltz
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11608 P RW LAB 021 TH 10-11AM B743 EH Kelley
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11609 P RW LAB 022 TH 11-12PM B743 EH Kelley
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11610 P RW LAB 023 TH 3-4PM B743 EH Kelley
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11611 P RW LAB 024 TH 4-5PM B743 EH Kelley
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11612 A R LEC 030 MWF 11-12PM 2260 USB Liu
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11613 P RW LAB 031 T 8-9AM B745 EH Gill
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11614 P RW LAB 032 T 9-10AM B743 EH Gill
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.

11615 P RW LAB 033 T 1-2PM B743 EH Gill
EVENING EXAMS FOR MATH 216: 8-10pm on Thurs, Oct 17 and Thurs, Nov 14. Avoid scheduling any class that conflicts with these exams.
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**It is recommended that you enroll in any section that fits your schedule as registration is restricted throughout the registration period. If you do not see space available in a section that fits your schedule, we recommend that you check back regularly as space will continue to open up throughout the registration period. A waitlist may open up the week prior to courses. We do not entertain waitlist requests prior to that period.**

Evening exams for MATH 217: 6-8pm on Wed, Oct 16 and Wed, Nov 13. Avoid scheduling any class that conflicts with these exams.

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This class meets in Weiser 269

312 Appl Mod Algebra

17913 P W LEC 001 TTH 10-1130AM 3866 EH Koziol

Please add your name to the wait list if you are interested in enrolling in this course.

316 Differential Equatn

11638 P RW LEC 001 MWF 1-2PM 4096 EH Ji
20523 P RW LEC 002 MWF 10-11AM 3096 EH Alben
29888 P RW LEC 003 MWF 9-10AM 4096 EH Ji

351 Princ of Analysis

19049 PI W LEC 001 MWF 230-4PM 2455 MH Cannes, Page

Please add your name to the wait list AND contact Professor Richard Cannes (cannes@umich.edu). Math 351 primarily consists of sophomore and junior students of mathematics from LSA and SOE.

371 Num Meth Engr

11639 P W LEC 001 TTH 12-130PM 2166 DOW Veerapaneni
16152 P W LEC 002 TTH 12-130PM 2166 DOW Veerapaneni

385 Elem Sch Teach

11640 P RW LEC 001 M 1-230PM 2427 MH Canton
11641 P RW LEC 002 M 230-4PM 2353 MH Canton
11642 P RW LEC 001 W 230-4PM 2347 MH Spatzier

Students with the prerequisite should add their names to the waitlist in order to receive an override. Students without this prerequisite should speak with an Honors Advisor for permission.

399 Independent Reading

1.00-6.00

404 Intern Diff Eqns

11644 P W LEC 001 MW 830-10AM 335 WH Newberry

IF YOU ARE A MATH CONCENTRATOR YOU MUST SIGN UP FOR MATH 404 NOT PHYS 413 or CMPLXSYS 541 TO RECEIVE CREDIT

412 Intro Mod Algebra

3.00 ADVISORY

11645 P W LEC 001 MW 830-10AM B735 EH Winarski

Enrollment in this course is managed via waitlist. Please add your name to the waitlist if you are interested in enrolling in the course.

This course will have an evening exam on Monday 10/21 from 6-9PM. Avoid scheduling any class that conflicts with this exam.
Enrollment in this course is managed via waitlist. Please add your name to the waitlist if you are interested in enrolling in the course.

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Enrollment for this course is by waitlist only. Preference will be given to Actuarial and Financial Math majors.

Course restricted to Math majors.

Course restricted to Mathematics Majors.

Course restricted to Mathematics Majors.

Course restricted to Mathematics Majors.

Course restricted to Mathematics Majors.

Course restricted to Mathematics Majors.

Course restricted to Mathematics Majors.
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majors will not occur until the first week of classes.

Enrollment for this course is by waitlist only. Wait list priority given to Actuarial/Financial Math undergrads and Quantitative Finance & Risk Management Master's students, then other math majors. Permissions for other majors will not occur until the first week of classes.

540 Math of Bio Networks 3.00

25703 P RW LEC 001 TTH 830-10AM 1068 EH Rajapakse

Enrollment for this course is by Waitlist only. Preference is given to Math PhD students.

558 Appl Nonlinear Dyn 3.00 ADVISORY

17410 P W LEC 001 TTH 230-4PM 1449 MH Conlon

Adv Ord Diff Eq & Dynamic Sys

561 Linear Pro I 3.00 ADVISORY

11670 P W LEC 001 MW 9-1030AM 1010 DOW Cohn

Adv Algebra I

565 Comb & Graph Theory 3.00 ADVISORY

11671 P W LEC 001 TTH 10-1130AM 1437 MH Pechenik

Math & Comp Neurosci

568 Math & Comp Neurosci 3.00 ENFORCED

26270 P RW LEC 001 MW 10-1130AM 3088 EH Booth

571 Num Lin Algebra 3.00 ADVISORY

11672 P RW LEC 001 TTH 830-10AM 1084 EH Viswanath

573 Fin Math I 3.00 ADVISORY

23997 P RW LEC 001 TTH 1-230PM 4153 USB Wright

This course is reserved for Quantitative Finance & Risk Management Master's students.

593 Algebra I 3.00 ADVISORY

11674 P W LEC 001 MWF 10-11AM 4153 USB Wright

Enrollment for this course is by wait list only. Overrides for non-Math PhD students will not be given until the end of August.

596 Analysis I 3.00 ADVISORY

11675 P W LEC 001 MWF 11-12PM 2866 EH Barrett

Complex Analysis

602 Real Analysis II 3.00 ADVISORY

16023 P W LEC 001 MWF 1-2PM 3866 EH Rudelson

Functional Analysis

612 Algebra II 3.00 ADVISORY

31710 P W LEC 001 MWF 1-2PM 3866 EH Stembridge

Lie Algebras & Representations

614 Commuta Algebra 3.00 ADVISORY

21494 P W LEC 001 MWF 1-2PM 3866 EH Stembridge

631 Algebraic Geom I 3.00 ADVISORY

11676 P W LEC 001 TTH 1130-1PM 4088 EH Bhatt

Prerequisites: Differential equations (e.g. Math 316); probability theory (e.g. Math 525/526, Stat 515); numerical analysis (Math 471 and Math 472); mathematical finance (Math 423 and Math 542/IOE 552, Math 506 or permission from instructor); programming (e.g. C, Matlab, Mathematica, Java).

623 Computation Finance 3.00 ADVISORY

16513 P W LEC 001 TTH 10-1130AM 4096 EH Guo

Enrollment for this course is by waitlist only. Preference will be given to students in the Quantitative Finance & Risk Management program and Math PhD students.

627 Appl Stoc Proc 3.00 ADVISORY

21487 P W LEC 001 MW 830-10AM 1152 SPH2 Wen

636 Topics Diff Geom 3.00 ADVISORY

20906 P W LEC 001 TTH 1130-1PM 3866 EH Burns Jr

Sympl Invariants & Quant Mech

656 Intro to PDEs 3.00 ADVISORY

17914 P W LEC 001 TTH 230-4PM 3096 EH Wu

663 Nonlin Prog 3.00 ADVISORY

23217 P W LEC 001 TTH 12-130PM 4088 EH Benes

665 Combinator Thry I I 3.00 ADVISORY

19048 P W LEC 001 TTH 12-1PM 2866 EH Seppelt

Bruhat Orders

671 Numerical Meth I 3.00 ADVISORY

28745 P W LEC 001 TTH 230-4PM 2866 EH Karni

Numer Methods for Conserv Laws

U of M Schedule of Classes Page 274 of 489  FA 2019 2260 09-09-2019 12:09 21610809
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## Medieval and Early Modern Studies

### Medieval and Early Modern Studies (MEMS)

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Students are auto-enrolled in lecture when they elect a discussion.
Middle East Studies Department

Arabic Language (ARABIC)

101 Elementary Arabic I 5.00
P W REC 001 M 8-10AM 1636 CHEM Vizthum

Dialect focus: Levantine

101 Elementary Arabic I 5.00
P W REC 002 M 8-10AM 3463 MH Madi

Dialect focus: Egyptian

101 Elementary Arabic I 5.00
P W REC 003 M 10-12PM 1507 NUB Reading

Dialect focus: Levantine

101 Elementary Arabic I 5.00
P W REC 004 M 1-3PM G144 AH Reading

Dialect focus: Levantine

201 Intermediate Arabic I 5.00 ADVISORY, ENFORCED
P RW REC 001 M 8-10AM 2401 MH Beebani

Dialect focus: Levantine

201 Intermediate Arabic I 5.00 ADVISORY, ENFORCED
P RW REC 001 M 11-1PM 3440 MH Madi

Dialect focus: Egyptian

201 Intermediate Arabic I 5.00 ADVISORY, ENFORCED
P RW REC 003 M 4-6PM 1175 NQ Beebani

Dialect focus: Levantine

401 Advanced Arabic I 5.00 ADVISORY
P RW REC 001 M 11-1PM 2112 MLB Alsayegh

Dialect focus: Levantine

401 Advanced Arabic I 5.00 ADVISORY
P RW REC 001 M 11-1PM 2104 MLB Alsayegh

Dialect focus: Levantine

401 Advanced Arabic I 5.00 ADVISORY
P RW REC 002 W 2-4PM B118 MLB Hannouchi

499 Ind Study in Arabic 1.00-4.00
D IND + ARR ARR

Hebrew Language (HEBREVIEW)

101 Elem Mod Hebrew I 5.00
P W REC 001 M 11-1PM G160 AH Pifer

101 Elem Mod Hebrew I 5.00
P W REC 001 W 10-11AM B122 MLB 4.00

201 Inter West Armen I 4.00 ADVISORY
P W REC 001 M 1-230PM 3000 STB Pifer

201 Inter West Armen I 4.00 ADVISORY
P W REC 001 W 1-2PM 3000 STB Alhawary

401 Classical Armenian 4.00 ADVISORY
P W REC 001 M 1-230PM 3000 STB Bardakjian

499 Ind Study Armenian 1.00-4.00
D IND + ARR ARR

Armenian Language (ARMENIAN)

101 West Armenian I 4.00
P W REC 001 M 10-1130AM 210 WH Pifer

101 West Armenian I 4.00
P W REC 001 W 10-11AM B122 MLB 4.00

201 Inter West Armen I 4.00 ADVISORY
P W REC 001 M 1-230PM 3000 STB Pifer

201 Inter West Armen I 4.00 ADVISORY
P W REC 001 W 1-2PM 3000 STB Alhawary

401 Classical Armenian 4.00 ADVISORY
P W REC 001 TTH 1-230PM 3000 STB Bardakjian

499 Ind Study Armenian 1.00-4.00
D IND + ARR ARR

U of M Schedule of Classes Page 277 of 489 FA 2019 2260 09-09-2019 12:09 21610809
The meeting pattern for this seminar will be determined in consultation with the students.

409  Mod Hebrew Readings
D  IND +  ARR ARR
31952 P  W SEM 001 MW 1130-1PM 3000 STB Raz
1.00 ADVISORY

Middle East Languages (MELANG)

201  Intmd Class Hebrew I
D  IND +  ARR ARR
31779 P  W REC 001 MW 1130-1PM 3205 MLB Schmidt
3.00 ADVISORY

307  Synoptic Gosp
30891 P  W REC 001 MTTHF 9-10AM 1437 MH Haug
3.00 ADVISORY

420  Intro to Akkadian
31969 P  W REC 001 MWF 9-10AM 3319 MLB Beckman
3.00 ADVISORY

430  Intr Middle Egyptn I
25058 P  W REC 001 MW 1030-1130AM ARR Davis
3.00 ADVISORY

450  Int CentAsian Lang I
22330 P  W REC 001 MTWTH 910-10AM ARR Northrop
4.00 ADVISORY

Elementary Uzbek I
This course is conducted via live video-conferencing with Ohio State University. The class schedule will follow OSU, with the first class being Tuesday, August 20, 2019. For more information, contact Douglas Northrop at northrop@umich.edu.

29947 P  W REC 002 MTWTHF 1010-11AM ARR Northrop

Introductory Uyghur I
Note: This course is conducted via live video-conferencing with Indiana University University. The class schedule will follow IU, with the first class being Monday, August 26, 2019. For more information, contact Douglas Northrop at northrop@umich.edu.

499  Ind Stdy ME Language
D  IND +  ARR ARR
35132 P  W REC 001 MTWTH 1020-1115AM ARR Northrop
1.00-4.00 ADVISORY

505  Im Cent Asian Lan I
36438 P  W REC 002 MTWF 1115-12PM ARR Northrop
4.00 ADVISORY
will follow IU, with the first class being Monday, August 26, 2019. For more information, contact Douglas Northrop
at northrop@umich.edu.

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This course is offered as part of the Digital Islamic Studies Curriculum. Students who enroll will participate via video conference with the home side taught at the University of Maryland. Note that the course meets from August 24, 2019 to December 9, 2019. Questions can be forwarded to Evan Murphy (murphyev@umich.edu), who is the UM Digital Islamic Studies Curriculum Program Coordinator.
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Philosophy, Politics and Economics (PPE)

U of M Schedule of Classes Page 286 of 489 FA 2019 2260 09-09-2019 12:09 21610809
Physics Department

Physics (PHYSICS)

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

--WAITLIST THROUGH WEB REGISTRATION AND THEN CHECK WITH THE PHYSICS STUDENT SERVICES OFFICE FOR PROCEDURES.

PHYSICS LABS 127, 128, 141, & 241 DON'T START UNTIL THE FIRST FULL WEEK OF CLASSES.

<table>
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<tr>
<th>CAT#</th>
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115 Principles of Phys 2.00

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121 Principles of Phys Design 4.00

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<td>WEISER Tomaszch, Weaverdyck</td>
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This course is primarily for School of Architecture and Design students. If students from other Schools/Colleges wish to take the course, they should add themselves to the waitlist. If remaining seats exist at the start of the term, waitlisted students will be granted permission to enroll.

32753 A LAB 002 | TH 4-6PM | WEISER Weaverdyck |

135 Principles of Phys Life Science I 4.00

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Students should elect PHYSICS 136 as the corresponding laboratory course.

21432 P LEC 003 | MTWTH 1-2PM | WISER Melnichuk |

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

Students should elect PHYSICS 136 as the corresponding lab.

136 Principles of Phys Life Sciences Lab I 1.00

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<td>P W LAB 003</td>
<td>M 5-7PM</td>
<td>RAND Chahrour</td>
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Please make sure this lab section does not conflict with evening exams for other courses.

20072 | P W LAB 004 | M 2-4PM | RAND Chahrour |

Please make sure this lab section does not conflict with evening exams for other courses.

20073 | P W LAB 010 | T 8-10AM | RAND Robinson |
| 20074 | P W LAB 011 | T 10-12PM | RAND Amidei |
| 20085 | P W LAB 012 | T 1-3PM | RAND Aguilard |
| 20075 | P W LAB 013 | T 3-5PM | RAND Aguilard |
| 20076 | P W LAB 014 | T 5-7PM | RAND Zhang |

Please make sure this lab section does not conflict with evening exams for other courses.

20077 | P W LAB 015 | T 7-9PM | RAND Zhang |

Please make sure this lab section does not conflict with evening exams for other courses.

20078 | P W LAB 020 | W 8-10AM | RAND Robinson |
| 20079 | P W LAB 021 | W 10-12PM | RAND Mitchell |
| 21766 | P W LAB 022 | W 1-3PM | RAND Purz |
| 20800 | P W LAB 023 | W 3-5PM | RAND Hanif |
| 21767 | P W LAB 024 | W 5-7PM | RAND Hanif |

Please make sure this lab section does not conflict with evening exams for other courses.

20081 | P W LAB 025 | W 7-9PM | RAND Mitchell |

Please make sure this lab section does not conflict with evening exams for other courses.

20082 | P W LAB 030 | TH 8-10AM | RAND Guo |
| 20083 | P W LAB 031 | TH 10-12PM | RAND Purz |
| 20084 | P W LAB 032 | TH 1-3PM | RAND Mendoza Serrano |
| 26858 | P W LAB 033 | TH 3-5PM | RAND Mendoza Serrano |
| 20086 | P W LAB 034 | TH 5-7PM | RAND Guo |

Please make sure this lab section does not conflict with evening exams for other courses. NOTE: If you are enrolled in PHYSICS 135 during the same term, this section conflicts with the evening exam and should not be taken concurrently with the lecture. No alternate exams will be given to students enrolled in this lab section and PHYSICS 135.

20087 | P W LAB 040 | F 8-10AM | RAND Wan |
| 26859 | P W LAB 041 | F 10-12PM | RAND Wan |
| 26860 | P W LAB 042 | F 1-3PM | RAND Gong |

140 General Physics I 4.00

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Students should elect PHYSICS 141 as the corresponding laboratory course.

20102 | PI W LEC 002 | MTWTH 10-11AM | WEISER Popov |

This section of PHYSICS 140 varies from the traditional lecture model of the course. The Physics Department is piloting a new "studio" instruction model with this section.
Students should elect PHYSICS 141 as the corresponding laboratory course.

This section of PHYSICS 140 varies from the traditional lecture model of the course. The Physics Department is piloting a new “studio” instruction model with this section.

Students should elect PHYSICS 141 as the corresponding laboratory course.

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.

Students should elect PHYSICS 141 as the corresponding laboratory course.

### 141 Elementary Lab I

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Please make sure this lab section does not conflict with evening exams for other courses.

### 160 Honors Physics I

Students should elect PHYSICS 161 (or PHYSICS 141) as the corresponding laboratory course.

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### 161 Honors Mechanics Lab

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Please make sure this lab section does not conflict with evening exams for other courses.

### 169 Physical Universe

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Students should elect PHYSICS 236 as the corresponding laboratory course.

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Students should elect PHYSICS 236 as the corresponding laboratory course.

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Please make sure this lab section does not conflict with evening exams for other courses.

### 2686 Phys Life Sciences II

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### 236 Life Sciences Lab II

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This section is for GSIs teaching the General Physics laboratory sequence.

[This course will meet in 348 West Hall.]

## U of M Schedule of Classes

Page 290 of 489 | FA 2019 2260 09-09-2019 12:09 21610809
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**101 Intro Pol Theory 4.00 ADVISORY**

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**111 Intro Amer Politics 4.00 ADVISORY**

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

**11812 A W LEC 030**

**112 Psy as Natl Science** 4.00

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Students are auto-enrolled in Lec 001 when they elect a Dis 002-013.
All sections meet from the 1st day of class, even if they occur before the 1st lecture.

20870 PIRW DIS 007 W 7-8PM 1372 EH Lee

20871 PIRW DIS 008 F 9-10AM 1449 MH Pittman

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

20872 PIRW DIS 009 F 10-11AM 4318 SPH2 Pittman

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

20873 PIRW DIS 010 F 11-12PM 2306 MH Pittman

31454 PIRW DIS 011 F 12-1PM 2340 SEB Johnson

Students are auto-enrolled in Lec 001 when they elect a Dis 002-013.

31455 PIRW DIS 012 F 1-2PM 180 TAP Johnson

Students are auto-enrolled in Lec 001 when they elect a Dis 002-013.

31456 PIRW DIS 013 F 10-11AM B0570 BUS Lee

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

114 Honors Intro Psych 4.00 ADVISORY, ENFORCED

31646 P RW LEC 001 MW 11-1PM 1423 EQ Tardif 3.00 ADVISORY

120 Sem in Psy-Soc Sci

11813 PIRW SEM 001 TTH 1-230PM ARR Preston

Can Psych Save the Planet?

Psych 120-007 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Fall 2019.

24125 P RW SEM 002 TTH 10-1130AM 271 WEISER Fryberg

Unpacking Your Cultural Self

28618 PIRW SEM 003 MW 1130-1PM 1060 EH Rabinowitz

Psych Perspectives of Politics

24126 P RW SEM 004 TH 9-12PM B804 EQ Graham-Bermann

The Psychology of Violence

22543 P RW SEM 005 MW 830-10AM 3021 EH Schreier

Devel thru Children's Lit

28802 PIRW SEM 006 TTH 1-230PM 3021 EH Malley

Religion & Personal Growth

28803 PIRW SEM 007 TH 5-8PM ARR Ybarra

Meaningful Leadership

Psych 120-007 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Fall 2019.

28804 P RW SEM 008 TTH 10-1130AM 1060 EH Seifert

How to be Creative

28805 P RW SEM 009 TTH 1130-1PM 1060 EH Seifert

How to be Creative

31665 PIRW SEM 010 F 10-1PM 3088 EH Conley

Sexuality in College Context

121 Sem in Psy-Nat Sci 3.00 ADVISORY

28807 P RW SEM 001 TTH 10-1130AM 3021 EH Bergman

Primate Communication & Lang

28808 P RW SEM 002 MWF 10-11AM 3866 EH Isbell

Thinking

122 Intrgrp Dialogue 3.00

122 Intrgrp Dialogue

18424 P SEM 001 W 230-530PM 170 WEISER Hwang

122 Intrgrp Dialogue

18426 P SEM 002 W 230-530PM ARR

200 Ind Psych Issues 1.00-4.00 ADVISORY

Do not contact the instructor. Direct all questions to psych.saa@umich.edu.

211 Project Outreach 3.00 ADVISORY 40.00

Working w/Preschool Children

http://sites.lsa.umich.edu/projectoutreach/. Email questions to project.outreach@umich.edu.

11815 P RW SEM 002 T 4-6PM 296 WEISER Cornett

Mind, Music & Community

http://sites.lsa.umich.edu/projectoutreach/. Email questions to project.outreach@umich.edu.

11816 P W SEM 003 TH 4-6PM 296 WEISER McCullough

Juvenile and Criminal Justice

http://sites.lsa.umich.edu/projectoutreach/. Email questions to project.outreach@umich.edu.

11817 P W SEM 004 TH 4-6PM 296 WEISER Wagner

Health, Illness and Society

http://sites.lsa.umich.edu/projectoutreach/. Email questions to project.outreach@umich.edu.

11818 P W SEM 005 W 4-6PM 1068 EH Smith

Using Your Psychology Degree

http://sites.lsa.umich.edu/projectoutreach/. Email questions to project.outreach@umich.edu.

213 Foundations IGR 3.00 ENFORCED

28699 P RW SEM 001 TTH 1-230PM G127 AH Kime

28701 P RW SEM 002 TTH 4-530PM 1460 MH Kime
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**Students:** if you do not meet the Intro Psych PREREQ, please call 734-764-2580 or visit the Psych SAA Office at 1343 East Hall (M-F, 8am-5pm) to request an override into an OPEN discussion section. You will be asked to register at that time.

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Psych 302 counts as a Methods Lab for Psych and BCN Majors.

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For Psy 330-002, interested students who have previously taken Psych 240 or Psych 250 may contact the Psych SAA Office (1343 EH) for an override into an open seat. CALL 734-764-2580, M-F 8am-5pm when you are able to register.
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Students who do not meet the required prerequisite (Psych 280 or Psych 290) may request an override if a seat is available.
Once your registration appointment begins, call 734-764-2580 (Psych SAA Office) to request an override for an OPEN seat.
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**Psych of Belonging**

Psych 401-011 Topic Title: Psychology of Belonging

26653 | P RW SEM 012 | W | | 4-7PM | B247 EH | Reese |

Psychology of Competition

28833 | P RW SEM 013 | TH | | 10-1PM | ARR | Grower |

The Ideal Woman

Psych 401-013 meets in the Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom.

26654 | P RW SEM 014 | TTH | | 1130-1PM | 210 WH | Schudson |

**Psych of Gender & Sexual Diversity**

402 | Special Problems | 3.00 | ADVISORY, ENFORCED |
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Biology of Maternal Care

31617 | P RW SEM 002 | MW | 230-4PM | 3021 EH | Naftziger |

Neuroscience of Mental Health

31618 | P RW SEM 003 | MW | 4-530PM | 1505 EQ | Salvador |

Social Neuroscience

31619 | P RW SEM 004 | TTH | | 1130-1PM | 3021 EH | Frank |

Emotion & Memory

31620 | P RW SEM 005 | TTH | | 4-530PM | 3088 EH | Carr |

Translational & Cocaine Addiction

31621 | P RW SEM 006 | MW | | 4-530PM | 1507 EQ | Hao |

**Bounded Rationality**

404 | Field Practicum | 1.00-4.00 | ADVISORY |
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**Topics in Biopsychology**

430 | Topics in Biopsychology | 3.00 | ENFORCED |
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Primate Communication & Lang

28839 | P RW SEM 002 | MW | 830-10AM | 1372 EH | Cummings |

The Developing Brain

31622 | P RW SEM 003 | MW | 1130-1PM | B247 EH | Aragona |

Biopsychology of Motivation

36014 | P RW SEM 004 | MW | 1-230PM | B247 EH | Perkins |

Dev Neurosci of Trauma & Stress

It is highly recommended students interested in Psych 430-004 have previously taken Psych 240 Intro Cog Sci. Students who have previously taken Psych 240 may contact the Psych SAA Office at 734-764-2580 to request an override into an open seat.

440 | Adv Topic Cog Neuro | 3.00 | ENFORCED |
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Neuroimaging the Mind

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Psych 442 is a course taught by Prof. Brang. If you previously took Psych 347 with Prof. Brang, do not register for Psych 442. The content is the same and students can not get credit for both courses.

447 | Current Topics CCN | 3.00 | ENFORCED |
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Consciousness & Cognition

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Decision Processes

31624 | S LEC 001 | TTH | | 1130-1PM | 269 WEISER | Michal |
| 31625 | P RW DIS 002 | F | | 10-11AM | LEC RM 1 MLB | Berg |
| 31626 | P RW DIS 003 | F | | 11-12PM | 269 WEISER | Berg |

451 | Adv Res Adol Psych | 3.00 | ENFORCED |
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Students who have taken Psych 250 or a neuroscience course, please call 734-764-2580 or visit the Psych SAA Office at 1343 East Hall (M-F, 8am-5pm) to request an override into an OPEN seat. You will be asked to register at that time. For further information about the course contact the instructor.
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Non-CCN students: The instructor will assess seat availability after CCN students have registered. Email demeyer@umich.edu to be added to his waitlist.

Class meets in Pillsbury Room, floor 4M of East Hall. Use Psych Church Street side Elevator to go to 4M. Elevator opens into classroom.

Class meets in Pillsbury Room, East Hall. Take the elevator on the Psych side of EH, Church St. entrance, up to floor 4M. Doors open directly into classroom. Fall 2019.

Interested Advanced Undergrads are welcome! Please contact instructor (clustig@umich.edu) for override.

Neural Mechanisms of Memory

LIFE arranged

For more information and overrides, contact Mary Mohrbach at mohrbach@umich.edu.

Transitions to Adult

Psych 958-002 - Advanced Psych Undergrads interested in this course should email vcmclloyd@umich.edu to request permission to register.

Psych 808-004 meets in EH4464 for Fall 2019.

For more information and overrides, contact Mary Mohrbach at mohrbach@umich.edu.
<table>
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<tr>
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Psych 988-004 meets in 4464EH, fall 2019 term.
## College of L S & A Residential College
### Humanities (RCHUMS)

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- **Beg Indonesian Orch**
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  - Time: 630-730PM
  - Location: 1320 MOORE
  - CR: 1.00
  - Instructor: Appleton, VanderBeek

- **Int Indonesian Orch**
  - Code: 23838
  - Days: TTH
  - Time: 445-630PM
  - Location: 1320 MOORE
  - CR: 1.00-2.00
  - Instructor: Appleton, VanderBeek

- **Int Indonesian Orch**
  - Code: 23838
  - Days: W
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  - Instructor: Appleton, VanderBeek
### Studies In Religion

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Romance Languages Department

Catalan (CATALAN)

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French (FRENCH)

---

A student who misses either of the first two meetings of any course offered by the Department of Romance Languages may be dropped from the course for non-attendance.
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www.lsa.umich.edu/rll/undergraduate/languageplacement/languageplacementtests.
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All students must take action through the registration system to make sure that their official schedule of courses matches the courses they are attending.

101 Elementary

<table>
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102 Elementary Review

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103 Elementary Review

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231 Second Year

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232 Second Year

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**Italian (ITALIAN)**

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### Elementary

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U of M Schedule of Classes Page 312 of 489

FA 2019 2260 09-09-2019 12:09 21610809
### Spanish (SPANISH)

--A student who misses either of the first two meetings of any course offered by the Department of Romance Languages may be dropped from the course for non-attendance.

--Students with any previous study of Spanish must take the Spanish placement test before enrolling. Placement test dates are online at: www.lsa.umich.edu/rll/undergraduate/languageplacement/languageplacementtests.

--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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For students with no previous study or by placement. Students with any previous study of Spanish or prior instruction in Spanish must take the placement test before enrolling.

This section is reserved for CSP students. Students must consult with a CSP advisor in order to receive permission to register for this section. Once classes begin, permission of the instructor is required. You can contact CSP for more information at 764-9128, csp-4info@umich.edu, or see the override FAQ on our website.
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U of M Schedule of Classes Page 315 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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U of M Schedule of Classes Page 316 of 489
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Writing 100 is designed to help students of all levels improve their writing, but is best suited to those who have yet to fulfill the First-Year Writing Requirement. Upper-level students should have a compelling academic reason for enrolling in Writing 100.

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

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This course open to UNDERGRADUATES only.

Creating Narratives in AR

This course open to UNDERGRADUATES only.

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Students hoping to add Writing 229 after the term starts must seek permission from the instructor.

Prof & Tech Pres

Sem Peer Consulting

Pac Prac Consulting

MWriFellows

Upper-Lvli Wrtg

Adv Rhet & Research

Writing in the Sciences

Writing Capstone

Teaching Writing

Section 001 begins on 09/10/19.

Section 002 begins on 09/11/19.
# SRC-PSM Graduate Program

## Survey Methodology (SURVMETH)

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| Fundamentals of Survey Methods
Contact: michpsm.isr@umich.edu with questions. All students interested in survey methodology are encouraged to take this course.

| 621   | Fund Data Collect I          | 3.00 | ADVISORY | Conrad, Antoun |
| 27594 | PD LEC 001 M 330-630PM ARR   |     |          |          |
| 632   | Cog,Comm,Survey Meas        | 3.00 | ADVISORY | Conrad |
| 16970 | P SEM 001 W 9-1130AM ARR     |     |          |          |
| Department permission and prerequisites required. Contact: michpsm.isr@umich.edu |

| 685   | Stat Modeling I             | 3.00 | ADVISORY | Lewis |
| 18321 | PD LEC 001 W 5-730PM ARR     |     |          |       |
| Department permission and prerequisites required. Contact: michpsm.isr@umich.edu |

| 687   | Applic Stat Modeling        | 3.00 | ADVISORY | Si |
| 23641 | PD LEC 101 F 10-1230PM ARR   |     |          |       |
| Department permission and prerequisites required. Contact: michpsm.isr@umich.edu |

| 689   | Directed Research           | 1.00-3.00 | ADVISORY |         |
|       | D IND + ARR                 |     |          |         |
| Survey Methodology students only. |

| 720   | Tot Surv Err Qual I         | 2.00 | ADVISORY |         |
| 17507 | PD SEM 001 TH 1020-12PM G300 PERRY Antoun |
| Department permission and prerequisites required. Contact: michpsm.isr@umich.edu |

| 727   | Comp & Data Display         | 3.00 | ADVISORY | Kern, Conrad |
| 29912 | PD LEC 001 M 1230-3PM G300 PERRY |
| Fund of Inference |

| 740   | Doctoral Seminar I          | 3.00 | ADVISORY | Elliott, Li |
| 29268 | PD LEC 001 F 1-4PM ARR       |     |          |       |
| Doctoral Seminar I |

| 890   | Special Seminars            | 3.00 | ADVISORY | Lahiri |
| 37133 | PI SEM 001 T 10-1230PM ARR   |     |          |       |
| Synthetic Populations
Contact Michigan Program in Survey Methodology for additional details: michpsm.isr@umich.edu |

| 899   | Directed Research           | 1.00-3.00 | ADVISORY |         |
| 30000 | D IND + ARR                 |     |          |         |
| Directed Research |

| 990   | Diss-Precond                | 1.00-8.00 | ADVISORY |         |
| 30000 | D IND + ARR                 |     |          |         |
| Diss-Precond |

| 995   | Diss-Cand                   | 8.00 | ENFORCED |         |
| 30000 | DR IND + ARR                |     |          |         |
| Diss-Cand |

Contact Michigan Program in Survey Methodology for additional details: michpsm.isr@umich.edu
### Slavic Languages & Lit Dept

#### Bosnian/Croatian/Serbian (BCS)

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#### Czech (CZECH)

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#### Russian (RUSSIAN)

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

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STUDENTS ARE AUTO-ENROLLED IN RECITATION WHEN THEY ELECT THE LECTURE.

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201 Second Year
11873 P RW REC 001 MTTHF 10-11AM 3163 USB Bondarenko
20092 P RW REC 002 MTTHF 12-1PM 3265 USB Martin
231 Russ Cul&Soc
30749 P W LEC 001 TTH 230-4PM 3254 LSA Maiorova
301 Third Year Russian
11874 P RW REC 001 TWTHF 10-11AM 3353 MH Shkolnik
347 Survey Russ Lit
11876 A W LEC 001 MW 1-230PM 1175 NQ Khagi
Love,Death&God:RussLit 1820-70
21422 P W DIS 002 F 11-12PM 171 LORCH Orteza
21423 P W DIS 003 F 1-2PM 3304 MLB Orteza
358 Cent Asia/Russ Eyes
30747 P LEC 001 TTH 1-230PM G115 AH Maiorova
365 Russian SciFi
30746 P LEC 001 MW 4-530PM 1507 NUB Khagi
401 Fourth Year Russian
11875 P W REC 001 TTH 1130-1PM 2112 MLB Shkolnik
401 Fourth Year Russian
430 Supervised Reading
I IND + ARR ARR 3.00 ADVISORY
491 Senior Honors
IR IND + ARR ARR 5.00 ADVISORY
511 First-Year Russian I
20881 P W REC 001 MTWTHF 10-11AM 2175 NQ Fort
20882 P W REC 002 MTWTHF 12-1PM 2135 NQ Ruiz
513 Second-Yr Russian I
20883 P RW REC 001 MTWTHF 10-11AM 3163 USB Bondarenko
20884 P RW REC 002 MTWTHF 12-1PM 3265 USB Martin
515 Third-Year Russian I
20885 P RW REC 001 TWTHF 10-11AM 3353 MH Shkolnik
517 Fourth-Yr Russian I
20886 P RW REC 001 TTH 1130-1PM 2112 MLB Shkolnik
517 Fourth-Yr Russian I
519 Fifth-Year Russian
16656 P RW REC 001 MW 3-5PM 4306 MLB Rogovyk
523 Inten First Yr Russ
24744 P W LEC 001 MTWTHF 11-12PM 1512 EQ Makin
24745 A W REC 002 MTWTHF 12-1PM 1512 EQ Makin
524 Russian Heritage I
22132 P W REC 001 TWTHF 9-10AM 3353 MH Shkolnik
558 Russia/Cent Asia Cul
30748 P LEC 001 TTH 1-230PM G115 AH Maiorova
651 Superv Read Lit
I IND + ARR ARR 1.00-4.00 ADVISORY
990 Diss-Precand
IR IND + ARR ARR 8.00 ENFORCED
995 Diss-Cand
IR IND + ARR ARR 8.00 ENFORCED

Slavic (SLAVIC)
150 First Year Seminar
28124 P W SEM 001 MW 4-530PM 2175 NQ Toman
151 First Year Seminar
20892 P RW SEM 001 TTH 1130-1PM 634 HH Westwalewicz
Rebellion: A Polish Tradition
260 Directed Reading
I IND + ARR ARR 1.00-4.00 ADVISORY
290 Studies E Euro Cult
29185 P W LEC 001 MW 4-530PM 1427 MH Aizman
Art and Anarchism
34696 P W LEC 002 T 4-6PM 1528 NUB Kola
Albanian Literature of Exile
26830 P W REC 004 TH 4-6PM 22 LORCH Bondarenko
This mini-course takes place every Tuesday, October 22 through December 3. This is a 1-credit course.
26831 P W REC 005 TH 4-6PM 1230 USB Bondarenko
This mini-course takes place every Thursday, September 5 through October 17. This is a 1-credit course.
Cultures of Ukraine
This mini-course takes place every Tuesday and Thursday, October 22 through December 10. It is a 2-credit mini-course.
312 Cnt Eur Cinema
20893 A LEC 001 TTH 2-3PM 1300 CHEM Eagle
20894 A LAB 002 W 7-10PM 1427 MH Aizman
50.00
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U of M Schedule of Classes Page 323 of 489
Sociology Department

Sociology (SOC)

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

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

**100 Intro to Sociology**

<table>
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**102 Intro Soc: Topics**

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**105 First Year Seminar**

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**122 Intgrp Dialogue**

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

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

Sociology majors should elect this course during their sophomore year. Honors majors should enroll in SOC 210, STATS 250 (350) or its equivalent prior to beginning the Honors course sequence in the winter term of the junior year.

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### 218  Foundations IGR

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### 225  Project Community

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**Course Title**

- **Conflict & Coexist**
- **Sports, Pol, Society**
- **Env Pub Op Analysis**
- **Intro Surv Res**
- **Undergrad Research**
- **Latin/o Americans**
- **World Pop Dynamics**
- **Sociology of Work**
- **Diagnosis, Sex, &Soc**
- **Soc of Gender**
- **Social Movements**
- **A L Soc Psych**
- **Hlth, Med, & Society**
- **Topics in Sociology**
- **Data Collection**
- **Orientation Seminar**
- **Theory & Practice**
- **Research Logic**
- **Statistics**

**Instructor**

- Waller-Bey
- Hicks
- Martel
- VanLoozen
- Sharp
- Wampler
- Mohai
- Zrzavy
- Eagle
- Hanenkrat
- Babic
- McGann
- Gohar
- Cech
- McGann
- Gaston
- Blik
- Lapehn
- Kelley
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- Markovits
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Statistics Department

Statistics (STATS)

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

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U of M Schedule of Classes Page 329 of 489
Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14406 P W LAB 015 M Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14407 P W LAB 016 M Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14408 P W LAB 017 M Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14409 P W LAB 018 M Stats 250 Fall 2019 Exam Schedule
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Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14410 P W LAB 019 M Stats 250 Fall 2019 Exam Schedule
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Final: Mon Dec 16, 7:30-9:30 pm
14430 P W LAB 020 M Stats 250 Fall 2019 Exam Schedule
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Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14412 P W LAB 021 M Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
14432 P W LAB 022 T Stats 250 Fall 2019 Exam Schedule
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14413 P W LAB 023 T Stats 250 Fall 2019 Exam Schedule
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14414 P W LAB 024 T Stats 250 Fall 2019 Exam Schedule
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14415 P W LAB 025 T Stats 250 Fall 2019 Exam Schedule
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14418 P W LAB 028 T Stats 250 Fall 2019 Exam Schedule
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14419 P W LAB 029 T Stats 250 Fall 2019 Exam Schedule
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Final: Mon Dec 16, 7:30-9:30 pm

Stats 250 Fall 2019 Exam Schedule
Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
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Exam 1: Thu Oct 17, 6 - 7:30 pm
Exam 2: Thu Nov 14, 6-7:30 pm
Final: Mon Dec 16, 7:30-9:30 pm
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.
Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.

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Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.

449 Topics in Biostat 3.00 ADVISORY
26801 P RW LEC 002 MW 4-530PM B844 EH Green
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.

451 Bayesian Data Analy 3.00 ENFORCED
32603 P RW LEC 001 MW 830-10AM 1449 MH Chen
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.

450 Intro Design of Exp 3.00 ADVISORY
16977 A R LEC 001 WF 10-1130AM 1120 WEIL Nagaraj
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. Any remaining seats reserved for Statistics students will be opened after registration is complete and waitlists have been evaluated.

485 Capstone Seminar 3.00 ADVISORY
31524 PD W LEC 001 MW 1130-1PM 1405 EQ Hansen
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

500 Stat Learn I:Regress 3.00 ADVISORY
19129 P RW LEC 002 TTH 830-10AM 1528 NUB Gagnon Bartsch
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

501 Ind Study in Stat I IND + ARR AAR 1.00-4.00 ADVISORY
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

506 Comp Methods&Tools 3.00 ADVISORY, ENFORCED
24102 P RW LEC 001 TTH 10-1130AM 296 WEISER Henderson
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

507 Data Sci in Python 3.00 ADVISORY
31815 P RW LEC 001 TTH 4-530PM G390 DENT Levin
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

510 Prob Dist Theory 3.00 ADVISORY
21566 P RW LEC 001 WF 1-230PM 1300 CHEM Lodhia
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.

525 Probability Theory 3.00 ADVISORY
11933 P RW LEC 001 TTH 830-10AM 2306 MH Zieve
The Department of Statistics must allow students who are declared in its programs the opportunity to register for Statistics classes needed to complete their programs. The Statistics Department holds orientation for incoming Master's and PhD students at the end of August. Any remaining seats will be taken off of reserve on September 3, 2019. Instructors in the Statistics Department do not manage their waitlists and do not issue overrides.
ENROLLMENT FOR THIS COURSE IS BY WAIT-LIST ONLY. Waitlist preference will be given to Financial Math and AIM students. The waitlist will be reviewed after the end of the Winter term.

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Film, Fiction & Female Israel
32262  P RW SEM 002  MW  830-10AM  180 TAP  Alexy
Fantasizing Japan

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<td>Courses arranged by student. Must complete required number by end of term.</td>
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<td>30059</td>
<td>P R SEM 002 T</td>
<td>330-5PM</td>
<td>2901 THSL</td>
<td>Olson</td>
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<td>Class starts Sept 4th, 2018. Undergraduates may enroll with instructor permission and override. Class meetings in 2901 THSL.</td>
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<tr>
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<td>This course is for first year PIBS students only.</td>
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<td>Class starts Sept. 4 and meets Tuesdays in 2901 THSL and Wednesdays 6000 THSL from 3:30-5:00 pm</td>
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<td>You must be a first year PIBS graduate student to be enrolled in this course. See Canvas Class website schedule for details.</td>
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# Cancer Biology Graduate Program

## Cancer Biology (CANCBIO)

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- **Grad Independ Res**
  - IND +
  - ARR
  - Location: 2813/2817 Med Sci II
  - This course meets every Wednesday from 4 -5 pm

- **Cancer Biol Sem**
  - 21217 P SEM 001 W 4-5PM
  - 2903 THSL
  - Lyssiotis, Crawford

- **Pre-Cand Diss Res**
  - D IND +
  - ARR

- **Cand Diss Res**
  - D IND +
  - ARR
**Cell and Developmental Biology**

**Cell and Developmental Biology (CDB)**

**503 Res Respond & Ethics**
- CR: 1.00
- ADVISORY: Barolo
- MEETS: OCT 7 - NOV 11.
- Lectures are located in North Lecture Hall, Med Sci II.

**530 Cell Biology**
- CR: 3.00
- ADVISORY:

*PhD students will have preference over Masters students and undergraduate students for enrollment.

---

**581 Dev Genetics**
- CR: 3.00
- ADVISORY: Allen, Lee, Maillard, Wong, Ye, Gumucio, Duncan, Hug, Holloway

**598 Directed Readings**
- CR: 1.00-4.00
- ADVISORY:

**599 Directed Research**
- CR: 1.00-8.00
- ADVISORY:

**800 Special Topics**
- CR: 3.00
- ADVISORY: 

**801 Graduate Seminar**
- CR: 1.00
- ADVISORY: Giger, Hug

**990 Diss Pre-Cand**
- CR: 1.00-8.00
- ADVISORY: 

**995 Diss-Cand**
- CR: 8.00
- ENFORCED: 

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**U of M Schedule of Classes**

Page 351 of 489

FA 2019 2260 09-09-2019 12:09 21610809
## Cellular and Molecular Biology

Cellular And Molecular Biology (CMBIOL)

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MUST BE A PIBS, CMB, OR GENETICS TRAINING

GRANT STUDENT TO "Messing with the Messenger: The Role of RNA Modification in Biology"

Oct 8 - 3pm (M3330 MS I)
Oct 24 - 3pm (M3330 MS I)
Oct 29 - 3pm (M3330 MS I)
Nov 7 - 3pm (M3330 MS I)

| 850  | Seminar       | 1.00-2.00 | Fuller |
| 12044 | SEM 021 | M 12-1PM | ARR |

Student Seminar Series

Only graduate students in the Cellular and Molecular Biology Program (or PIBS-CMB) can register for this course.

| 990  | Diss-Precand | 1.00-8.00 | ADVISORY | |
| 995  | Diss-Cand    | 8.00     | ENFORCED | |
# Dermatology Department

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## Human Genetics Department

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Recitations on Mondays from 5:00-6:00 pm and on Tuesdays from 12:00-1:00 pm. Optional for students.

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### Int Med-General Medicine

**Health and Health Care Research (HHCR)**

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**Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR**

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## Internal Medicine Department

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Meet first Tuesday of the month Sept-Dec
### Department of Learning Health Sciences

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U of M Schedule of Classes Page 359 of 489
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## Center For Neuroscience

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### Course Descriptions

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- **Res Respons Eth Neuro (503)**
- **Hum Neuroanat I (570)**
- **Hum Neuroanat II (571)**
- **Principles Neuro I (601)**
- **Principles Neuro I (601)**
- **Neurochem/Neuropharm (610)**
- **Neural Development (612)**
- **Circuits/Comp NS (613)**
- **Neurosci Sem (700)**
- **Readings: Integrative (704)**
- **Neurosci Res Method (800)**
- **Diss-Precand (990)**
- **Diss-Cand (995)**

### Other Courses

- **Neurosci Res Method (800)**
- **Diss-Precand (990)**
- **Diss-Cand (995)**

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**Center For Neuroscience**

**Neuroscience (NEUROSCI)**

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**Center For Consciousness**

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**Center For Consciousness**

**Neuroscience (NEUROSCI)**

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## Otorhinolaryngology Department

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Pharmacology Department

Pharmacology (PHRMACOL)

310 Pharmacol & Therapeut
19223 P W LEC 001 TTH 2-4PM ARR 4.00 ADVISORY
Maybaum, Iniguez-Lluhi, Jenkins, Canman, Ferrario

Meets in room 3813/17 Med Sci II. Except 9/17, 9/26, 12/5, 12/10 which will be in 2903 THSL

310 has been approved as an elective for CMB, Neuroscience and Biomolecular Science majors, and as a cognate for Biology majors

330 Neuro Pharm UG Res
14259 P W LEC 001 T 2-4PM 7745 MSC2 1.00-3.00 ADVISORY, ENFORCED
Lee, Xu, Rui, Yin, Mortensen

430 Neuro Pharm UG Res
18856 PD SEM 001 MWF 8-9AM 1250 USB 1.00-3.00 ADVISORY, ENFORCED
Koutmou, Palfey, Koutmos

501 Chemical Biology I
23340 PD W LEC 001 TH 1-3PM ARR 3.00 ADVISORY
Isom, Osawa, Ragsdale, Wong, Burke, Anantharam, Adili, Tourdot, Goforth, Edokobi

Meets in room 2903 THSL except 9/12 and 9/26 which will be in SLH-3699 Med Sci II and various small group break-out rooms (to be announced). Priority enrollment is reserved for doctoral students in the Medical School's 14 programs under PIBS. Email pharminquiries@umich.edu with your UMID number to request permission to enroll.

501 has been approved as an elective for CMB, Neuroscience and Biomolecular Science majors, and as a cognate for Biology majors

502 Intr Sci Comm
23356 P DIS 001 MWF 9-10AM ARR 2.00 ADVISORY
Iniguez-Lluhi, Maybaum, Osawa, Smrcka, Jenkins, Ren

Meets in room 2901 THSL except 9/18 which will meet in 3813/17 Med Sci II

601 Quant Prin Pharm
23356 P DIS 001 MWF 9-10AM ARR 3.00 ADVISORY
Iniguez-Lluhi, Maybaum, Osawa, Smrcka, Jenkins, Ren

602 Independent Study
26051 P SEM 001 MWF 9-10AM ARR 1.00-8.00 ADVISORY

603 Practical Statistics
25584 P LAB 001 MW 10-11AM ARR 2.00 ADVISORY
Jukiewicz, Iniguez-Lluhi

Meets in room 2813 Med Sci II on Mondays and 5215 THSL on Wednesdays. Email pharminquiries@umich.edu for permission.

604 Collab Proj Pharm Sci
26051 P SEM 001 MWF 9-10AM ARR 1.00 ADVISORY
Gnegy, Scott, Osawa

This course is limited to students appointed to the PSTP training grant. This course meets at 4:30pm on 9/30, 10/28, 11/11, and 12/08 in 2813 Med Sci II

605 MS Degree Research
23250 P SEM 001 T 9-10AM ARR 1.00 ADVISORY
Rae

For Pharmacology Masters Students Only

614 Sem Autonomic Pharm
24104 P SEM 001 TTH 130-330PM ARR 2.00 ADVISORY
Anantharam


620 Business of Biology
23152 PIRW REC 001 MW 830-10AM B3570 BUS 2.25
Canter

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

621 Drug Disc & Ther
22811 P LEC 001 TH 10-12PM ARR 2.00 ADVISORY
Offord, Kaplan, Athey, Canter, Hayes, Laventhal, Spino, Groppi

Meets in room 3813/17 Med Sci II, except 9/12, 10/24, 12/5 which will meet in 5915 Buhl

625 Business of Biology
22812 P LEC 001 T 10-12PM ARR 2.00 ADVISORY
Offord, Kaplan, Athey, Bartlett, Galban, Holinstat, Weatherwax, Laventhal, Pilz, Shayman, Tremper, Groppi

Meets in room 2817 Med Sci II except 10/8 which will be in 3813 Med Sci II

626 Transl Sci Journal
23250 P R SEM 001 T 9-10AM ARR 1.00
Rae

Meets in room 2817 Med Sci II except 10/88 which meets in 3817 Med Sci II

626 Drug Dev & Jnl Club
23354 P LEC 001 TH 10-12PM ARR 3.00 ADVISORY
Shewach

626 Drug Dev & Jnl Club
23355 P LEC 001 F 10-11AM ARR 3.00 ADVISORY
Shewach

627 Top Trans Res&JClub
23356 P LEC 001 T 10-12PM ARR 3.00 ADVISORY
Shewach

627 Top Trans Res&JClub
23356 P LEC 001 F 10-11AM ARR 3.00 ADVISORY

U of M Schedule of Classes Page 369 of 489 FA 2019 2260 09-09-2019 12:09 21610809
Meets in room 3817 Med Sci II except 9/10, 10/8 which will meet in 6000 THSL and 12/10 in 5000 THSL

<table>
<thead>
<tr>
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<tr>
<td>640</td>
<td>Intro Transl Sci</td>
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Meets in room 2817 Med Sci II

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990 Diss-Precand

<table>
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Only for Pharmacology Graduate Students. Meets in room 2901 THSL.
<table>
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<td>510</td>
<td>Disab&amp;Rehab Methods</td>
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<td>539</td>
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</table>
Physiology Department

Physiology (PHYSIOL)

201 Human Physiol  4.00  ADVISORY

Students are auto-enrolled in lecture when they elect a discussion.
Class will be held in 3330 Med Sci I.

12118  P  LEC  001  MWF  1230-2PM  ARR  Rust
12119  P  RW DIS  002  F  11-12PM  ARR  Rust, Fleischman
12120  P  RW DIS  003  TH  9-10AM  ARR  Rust, Schaller
12121  P  RW DIS  004  TH  9-10AM  ARR  Rust, Grzegorski
12122  P  RW DIS  005  TH  4-5PM  ARR  Rust, Bagchi
12123  P  RW DIS  006  F  11-12PM  ARR  Rust, Guzman
14393  P  RW DIS  007  TH  4-5PM  ARR  Rust, Waninger
16647  P  R DIS  008  F  11-12PM  ARR  Rust
17128  PDR DIS  009  TH  4-5PM  ARR  Rust

306 Problems  1.00-4.00  ADVISORY

404 Hum Physiol Lab  2.00  ENFORCED  110.00

Classes will be held in 3797 Med Sci II.

21053  P  RW LAB  001  T  1030-1230PM  ARR  Houchin
21054  PIR LAB  002  T  1-3PM  ARR  Houchin

This section is reserved for MS Physiology students.
Classes will be held in 3797 Med Sci II.

21896  P  RW LAB  003  W  10-12PM  ARR  Houchin
21055  P  RW LAB  004  TH  1030-1230PM  ARR  Houchin
21910  PDR LAB  005  TH  1-3PM  ARR  Houchin

This section is reserved for MS Physiology students.
Classes will be held in 3797 Med Sci II.

405 Research Problems  1.00-4.00

406 Extreme Physiology  3.00  ENFORCED

The course is a mixture of undergraduate (Physiology 406) and MS in Physiology (Physiology 506) students. It is predicted that half the open registration slots for combined Physiology 406/506 will be open for Physiology 406. Because the combined Physiology 406/506 course is restricted to a limited number of students and Physiology 506 is a required course for a subset of master's students (whose course schedules are not set until the end of summer term), enrollment for Physiology 406 is BY WAITLIST ONLY. Overrides will be issued by the department as space becomes available, which may occur after the first course meeting. As such, interested students on the waitlist must attend the first class. An enrolled student who does not attend the first meeting may be dropped from the course for non-attendance. Students will be notified and given 2 days to use the override, after which the spot will go to an alternate student on the waitlist.

502 Human Physiology  4.00  ADVISORY

"New info as of April 2015" - This course will be offered during the Fall Term only. Please disregard any conflicting information in the LSA Course Guide. Wolverine Access information is correct. Undergraduate students who have completed the pre-requisites are welcome to enroll. Advisory prerequisites: one college-level course in Biology with Biochemistry.

505 Physiol Lab  2.00  ADVISORY, ENFORCED  270.00

Classes will be held in 3797 Med Sci II.

506 Extreme Physiology  3.00  ENFORCED

Students must attend the first class; an enrolled student who does not attend the first meeting may be dropped from the course for non-attendance. Undergraduate students are not eligible to register for Physiology 506; they are eligible to register for Physiology 406.

519 Quantitative Physio  4.00  ADVISORY

576 Signal Transduction  1.00  ADVISORY

577 Membrane&Cell Phys  2.00

591 Signal Transduction  2.00  ADVISORY

599 Grad Ind Research  1.00-8.00  ADVISORY

602 Meth Res Physiology  2.00-6.00  ADVISORY

603 Meth Res Physiology  2.00-6.00  ADVISORY

605 MS Seminar Physio  1.00

Class location and time will be determined at a later date.

<table>
<thead>
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<td>Radiation Oncology (RADONCO)</td>
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## Surgery Department

### Surgery (SURGERY)

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<tr>
<td>499</td>
<td>Urology Surgery</td>
<td>UROLOGY</td>
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<td>Urology Research</td>
<td>1</td>
<td>IND</td>
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--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)**

<table>
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<tr>
<td></td>
<td>DANCE STUDIO A Peters</td>
<td></td>
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</tr>
<tr>
<td>Pilates Moving through a fusion of classical and contemporary Pilates mat exercises, this course will address functional alignment and balanced strength in the body. The class is open to all levels, as we will break down the exercises with specificity while engaging the entire body. The second half of each class will move into larger, body weight movements designed to strengthen and elevate the heart rate.</td>
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<tr>
<td>20829</td>
<td>P W LAB 002 MW 9-10AM</td>
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<tr>
<td></td>
<td>DANCE STUDIO B Chacon Arias</td>
<td></td>
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<tr>
<td>Ballet</td>
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<tr>
<td>20197</td>
<td>P W LAB 003 MW 9-10AM</td>
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<td></td>
<td>DANCE STUDIO D Lin</td>
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<tr>
<td>Popping This beginner level course focuses on the street dance genre of popping. Popping is a funk style that originated from California in the late 60's and early 70's. Boogaloo Sam (Sam Solomon) and his crew, the Electric Boogaloo's, popularized this style through their appearance on Soul Train and movies like Breakin' 2. Since then, it has influenced the movement of many artists including Michael Jackson, Missy Elliot, Usher and more. Fundamental elements of popping we will cover in this class include hitting, dime stops, waving, gliding, isolation, ticking, and tutting. Students will be encouraged to incorporate these various elements into their own freestyle/improvisational movement. Choreography is also provided to help students develop retention, performance, and discipline. The goals of this class are to increase body awareness, build self-confidence, create community, and discover personal style(s) of movement.</td>
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<tr>
<td>20198</td>
<td>P W LAB 004 MW 10-11AM</td>
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<tr>
<td></td>
<td>DANCE STUDIO A Wilson</td>
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<tr>
<td>Modern Taught by dance students enrolled in DANCE 481.001.</td>
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<tr>
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<td>P W LAB 005 MW 10-11AM</td>
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<tr>
<td></td>
<td>DANCE STUDIO B Biza</td>
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<tr>
<td>Modern Dance with Latino Influ</td>
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<tr>
<td>Bienvenidos! (Welcome)! Start your Mondays and Wednesdays on a high note, at 10am, dancing to the sounds of Latin American music such as Mambo, Merengue, Bolero, and Salsa; mixed with contemporary dance styles. Learn about the origins of these rich musical styles, broaden your knowledge and find new ways to identify with Central and South American music, poetry, literature and the visual arts.</td>
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<tr>
<td>20200</td>
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<td></td>
<td>DANCE STUDIO D Taylor</td>
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<td>West African</td>
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<tr>
<td>20201</td>
<td>P W LAB 007 MW 11-12PM</td>
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<td></td>
<td>DANCE STUDIO B Davis</td>
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<tr>
<td>Intro to Partnering</td>
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<td>Broadway Jazz</td>
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<tr>
<td>20204</td>
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<td>DANCE STUDIO D Davis</td>
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<tr>
<td>21059</td>
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<td></td>
<td>DANCE STUDIO A Rosario</td>
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<tr>
<td>Hip Hop</td>
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<td>DANCE STUDIO B Wang</td>
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<td>24420</td>
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<td></td>
<td>DANCE STUDIO B Brading</td>
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<td>DANCE STUDIO A Beck</td>
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<tr>
<td>Modern</td>
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<tr>
<td>Taught by dance students enrolled in DANCE 481.002.</td>
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<tr>
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<td>P W LAB 015 F 1-3PM</td>
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<tr>
<td></td>
<td>DANCE STUDIO B Chacon Arias</td>
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<tr>
<td>Dance for Actors/Actresses Dance for Actors/Actresses will allow students to have a new relationship with their bodies. It is an encounter with the movement throughout Dance exercises that entails exploration of their own body language, along with the development of new physical skills.</td>
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<td></td>
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Moving through a fusion of classical and contemporary Pilates mat exercises, this course will address functional alignment and balanced strength in the body. The class is open to all levels, as we will break down the exercises specifically with engaging the entire body. The second half of each class will move into larger, body weight movements designed to strengthen and elevate the heart rate.

This beginner level course focuses on the street dance genre of popping. Popping is a funk style that originated from California in the late 60's and early 70's. Boogaloo Sam (Sam Solomon) and his crew, the Electric Boogaloos, popularized this style through their appearance on Soul Train and movies like Breakin' 2. Since then, it has influenced the movement of many artists including Michael Jackson, Missy Elliot, Usher and more. Fundamental elements of popping will be covered in this class including hitting, dime stops, waving, gliding, isolation, ticking, and tutting. Students will be encouraged to incorporate these elements into their own freestyle/improvisational movement. Choreography is also provided to help students develop retention, performance, and discipline. The goals of this class are to increase body awareness, build self-confidence, create community, and discover personal style(s) of movement.

This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.

This class meets in Studio D. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.

This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.

This class meets in Studio D. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.

This class meets in Studio B. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.

This class meets in Studio A. It is combined with a non-major section.

This class meets in Studio B. It is combined with a non-major section.
Pilates/Body Conditioning
This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33442 PD W LAB 006 MW 9-10AM ARR Lin

Popping
This class meets in Studio D. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33443 PD LAB 007 MW 4-530PM DANCE STUDIO A Rosario, Brading

Guest Technique
33445 PD LAB 008 ARR ARR

This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33446 PD LAB 009 TTH 4-530PM DANCE STUDIO D Taylor, Wang

Guest Technique
34666 PD LAB 611 ARR ARR Fogel

Rep Credit for Thesis Concert
231 Dance Comp 3 2.00 ADVISORY

20225 PD W LAB 001 TTH 2-330PM DANCE STUDIO D Bascom

241 Art of Dance 3.00
18326 P RW SEM 001 MW 10-1130AM B834 EQ Genne

242 Int Music Move 2.00
27282 PI LAB 001 MW 10-12PM DANCE STUDIO C Kao

265 Afro-Caribbean 1.00
29685 P W LAB 001 TTH 10-1130AM DANCE STUDIO A Wilson

291 Sophomore Seminar 2.00 ADVISORY
27017 PD LAB 001 W 830-10AM DANCE STUDIO C Croft

301 Modern Dance III 1.00 ADVISORY
27013 PD LAB 001 TTH 12-130PM DANCE STUDIO A Chavasse

303 Modern Dance III 1.00 ADVISORY
33468 PD LAB 001 MW 2-330PM DANCE STUDIO A Frazier

Hip Hop
This course will explore the history of hip hop culture, its evolution as a social movement, and its influence on today’s social dance concepts. Students will learn the foundational elements of various styles within this dynamic dance genre. The course is both for experienced and non-experienced hip-hop dancers.
311 Ballet III 1.00 ADVISORY
20232 PD W LAB 001 TTH 830-10AM DANCE STUDIO A Jelinkova

313 Ballet III 1.00 ADVISORY
20284 PD W LAB 001 MW 12-130PM DANCE STUDIO D West

321 Junior Repertory 1.00 ADVISORY
20217 PD LAB 001 M 1-1AM ARR

321 Junior Repertory 1.00 ADVISORY
20218 PD LAB 002 M 1-1AM ARR

321 Junior Repertory 1.00 ADVISORY
20219 PD LAB 003 T 1-1AM ARR

327 Junior Lab 1.00 ADVISORY
19898 PD W LAB 001 F 3-5PM DANCE STUDIO A Shavit

Modern
19899 PD W LAB 002 F 1-3PM DANCE STUDIO D West

Ballet
19900 PD W LAB 003 ARR ARR

20193 PD W LAB 004 F 3-5PM DANCE STUDIO D Wilson

Improvisation
29719 PD W LAB 005 MW 9-10AM ARR Peters

Pilates/Body Conditioning
This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33450 PD W LAB 006 MW 9-10AM ARR Lin

Popping
This class meets in Studio D. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33451 PD LAB 007 MW 4-530PM DANCE STUDIO A Rosario, Brading

Guest Technique
33452 PD LAB 008 ARR ARR

This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33453 PD LAB 009 TTH 4-530PM DANCE STUDIO D Taylor, Wang

Guest Technique
391 Thesis Project Lab 1.00
27929 PD LAB 001 ARR ARR Fogel

401 Modern Dance IV 1.00 ADVISORY
30222 PD LAB 002 ARR ARR Croft

30223 PD LAB 003 ARR ARR Chavasse

30224 PD LAB 004 ARR ARR Croft
27014 PD LAB 001 TTH 12-130PM DANCE STUDIO A Chavasse
403 Ballet IV 1.00 ADVISORY
33469 PD LAB 001 MW 2-330PM DANCE STUDIO A Frazier
Hip Hop
411 Modern Dance IV 1.00 ADVISORY
20282 PD W LAB 001 TTH 830-10AM DANCE STUDIO D Jelinkova
33469 PD LAB 001 MW 12-130PM DANCE STUDIO D West
421 Senior Repertory 1.00 ADVISORY
20220 PD LAB 001 M 1-1AM ARR
20220 PD LAB 001 TTH 1-1AM ARR
20221 PD LAB 002 M 4-6PM ARR
20221 PD LAB 002 W 4-6PM ARR
20221 PD LAB 002 F 4-6PM ARR
20221 PD LAB 002 F 4-6PM ARR
427 Senior Lab 1.00 ADVISORY
19901 PD W LAB 001 F 3-5PM DANCE STUDIO A Shavit
19902 PD W LAB 002 F 1-3PM DANCE STUDIO D West
Ballet
Improvisation
33464 PD LAB 006 MW 9-10AM ARR Lin
33465 PD LAB 007 MW 4-530PM DANCE STUDIO A Rosario, Brading
Pilates/Body Conditioning
This class meets in Studio A. It is combined with a non-major section. 15 spots are available for majors and 25 spots are available for non-majors.
33464 PD LAB 006 MW 9-10AM ARR Lin
33465 PD LAB 007 MW 4-530PM DANCE STUDIO A Rosario, Brading
Guest Technique
33466 PD LAB 008 TTH 4-530PM DANCE STUDIO A Rosario, Brading
33467 PD LAB 009 TTH 4-530PM DANCE STUDIO D Taylor, Wang
Guest Technique
448 Writing Dancing 3.00
33130 PD W LEC 001 MW 12-130PM 2106 MLB Kane
481 Teaching Methods 3.00 ADVISORY
20209 PD W LEC 001 MW 10-12PM ARR Wilson
Meets with DANCE 100.004, Studio A, Dance Bldg.
29689 PD W LEC 002 TTH 4-6PM ARR Beck
Meets with DANCE 100.014, Studio A, Dance Bldg.
491 Senior Seminar 2.00 ADVISORY
20226 PD W SEM 001 W 830-10AM 2104 MLB Matijas-Mecca
493 Senior Concert 4.00 ADVISORY
27108 PD LAB 001 T 1-2PM ARR Cole
29686 PD LAB 002 T 3-4PM ARR Cole
496 Special Topics 2.00-3.00
29686 PD LEC 001 TTH 4-530PM DANCE STUDIO B Brissey
Racial Integration Amer Perf
Special Topics in Choreographic Approaches: Art and Ecology - Prioritizing making-as-research, this course will investigate the ways in which nature and culture are never mutually exclusive, and the role of art in our current political-social-ecological climate. What becomes possible when we design choreographic/art-making processes that directly reflect and challenge broader quotidian movement systems, such as urban infrastructures and ecosystems, systemic inequalities, activism models, and interspecies relationships? By developing creative projects through local site visits and field work relevant to individual research interests, we will unearth the ways in which art does not only reflect the material world around us, but can create and/or change it.
36218 PD LEC 002 M 6-8PM DANCE STUDIO A Brissey
37301 PI W LEC 003 TTH 830-10AM 3100 OBL Schuyten
Anatomical Principles
This class will be meeting in OBL3100.
The Dancer is a body-aware performer, who requires understanding of how their body works and knowledge of how the different parts of their body work together to optimize their movement. This course will give an overview of the musculoskeletal anatomy and its association to movement, common dance injuries linked to specific anatomy, with training and conditioning examples provided to address deficits and areas of concern.

497 Independent Study
D IND + ARR ARR 1.00-3.00 ADVISORY

Field Experience
498

20227 PD LAB 001 ARR ARR 1.00-3.00 ADVISORY
20562 PD LAB 002 ARR ARR Chavasse
20563 PD LAB 003 ARR ARR Cole
20564 PD LAB 004 ARR ARR Deyoung Jr
20565 PD LAB 005 ARR ARR Fogel
20566 PD LAB 006 ARR ARR Matijas-Mecca
20567 PD LAB 007 ARR ARR Wilson

501 RIA 1

30183 PD W LEC 001 TH 10-12PM ARR Kane 3.00 ADVISORY

Meets in Geddes conference room.

511 Ballet

19729 PD W LAB 001 TTH 830-10AM DANCE STUDIO D Jelinkova 1.00 ADVISORY
20556 PD LAB 002 MW 12-130PM DANCE STUDIO D West
21068 PD W LAB 003 F 1-3PM DANCE STUDIO D West

513 Modern Dance

30298 PD LAB 004 MW 2-330PM ARR Rice 1.00 ADVISORY

519 IS: Dance Technique

D IND + ARR ARR 1.00-3.00

Grad repertory for Power

521 UDC

19884 PD LAB 001 M 1-1AM ARR ARR 1.00 ADVISORY

521 UDC

P LAB 001 W 1-1AM ARR ARR 1.00 ADVISORY

Grad repertory for Power

521 UDC

19904 PD LAB 002 M 4-6PM ARR ARR 1.00 ADVISORY

521 UDC

P LAB 002 W 4-6PM ARR ARR 1.00 ADVISORY

Kelly Hirina's Thesis Concert

529 IS: Perform/Rep

D IND + ARR ARR 1.00-3.00

534 Perf Improv

34173 PD W LAB 001 TTH 2-330PM DANCE STUDIO B Chavasse 3.00

537 ST: Choreography

34318 PD LAB 001 TTH 4-530PM ARR Brissey 1.00-3.00

Special Topics in Choreographic Approaches: Art and Ecology - Prioritizing making-as-research, this course will investigate the ways in which nature and culture are never mutually exclusive, and the role of art in our current political-social-ecological climate. What becomes possible when we design choreographic/art-making processes that directly reflect and challenge broader quotidian movement systems, such as urban infrastructures and ecosystems, systemic inequalities, activism models, and interspecies relationships? By developing creative projects through local site visits and field work relevant to individual research interests, we will unearth the ways in which art does not only reflect the material world around us, but can create and/or change it.

No prior experience is required in any specific field or discipline.

This class meets in Studio B in the Dance Building.

538 FE: Choreography

20528 PD LAB 001 ARR ARR 1.00-3.00

539 IS: Choreography

D IND + ARR ARR 1.00-3.00

543 Screen Portfolio

D IND + ARR ARR 2.00-4.00 ADVISORY

544 ST: Screendance

22433 PD SEM 001 ARR ARR 1.00-3.00

548 FE: Screendance

22434 PD LAB 001 ARR ARR 1.00-3.00
This course will guide students through all elements of producing a collaborative performance event in a condensed timeline, including rehearsal scheduling, lighting design, stage management, event coordination, and publicity. Students will work to create interdisciplinary collaborations between music and dance. The class will be responsible for all production and design elements, mentored by the instructor, including the curation of, the designation of management roles among the group, and devising a name and poster for the final performance.

**Thesis Performance**

I IND + ARR ARR 6.00 ADVISORY

**Ballet**

20507 PD W LAB 001 TTH 8:30-10:00AM DANCE STUDIO D Jelinkova
20557 PD W LAB 002 MW 12:30-2:30PM DANCE STUDIO D West
21069 PD W LAB 003 F 1-3PM DANCE STUDIO D West

**Modern Dance**

27016 PD LAB 002 TTH 12:30-2:30PM DANCE STUDIO A Chavasse
21070 PD LAB 003 F 3-5PM DANCE STUDIO A Shavit

**Hip Hop**

30218 PD LAB 004 MW 2-3:30PM DANCE STUDIO A Frazier
30221 PD LAB 005 MW 12:30-2:30PM ARR Croft
34955 PD LAB 006 TTH 12:30-2:30PM ARR Croft

**FE: Dance Technique**

29951 PD LAB 001 ARR 1.00-3.00

**IS: Dance Technique**

D IND + ARR 1.00-3.00

**UDC**

20508 PD LAB 001 M 1-1AM ARR 1.00-2.00 ADVISORY
261 UDC P LAB 001 W 1-1AM ARR 1.00-2.00 ADVISORY
262 UDC P LAB 002 M 4-6PM ARR 1.00-2.00 ADVISORY
261 UDC P LAB 002 W 4-6PM ARR 1.00-2.00 ADVISORY
262 UDC P LAB 003 T 1-1AM ARR 1.00-2.00 ADVISORY
25934 PD LAB 004 T 1-1AM ARR 1.00-2.00 ADVISORY
25935 PD LAB 005 F 1-1AM ARR 1.00-2.00 ADVISORY

**IS: Perform/Rep**

D IND + ARR 1.00-3.00

**Grad Studio**

20506 PD LAB 001 F 9-12PM ARR Chavasse

**ScreenPortfolio**

34319 PD LAB 001 TTH 4-5:30PM ARR Brissey

**ST: Choreography**

343 ST LAB 001 TTH 4-5:30PM ARR Brissey

Special Topics in Choreographic Approaches: Art and Ecology - Prioritizing making-as-research, this course will investigate the ways in which nature and culture are never mutually exclusive, and the role of art in our current political-social-ecological climate. What becomes possible when we design choreographic/art-making processes that directly reflect and challenge broader quotidian movement systems, such as urban infrastructures and ecosystems, systemic inequalities, activism models, and interspecies relationships? By developing creative projects through local site visits and field work relevant to individual research interests, we will unearth the ways in which art does not only reflect the material world around us, but can create and/or change it.

No prior experience is required in any specific field or discipline.

This class meets in Studio B in the Dance Building.
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## School of Music, Theatre and Dance

### Arts Administration (ARTSADMN)

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### Your Perf Career-Teach Artist

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Students receive 1 credit in section 001 for attending a minimum of 10 qualifying EXCEL seminars and completing post-workshop reflective exercises, attending an introductory and a final discussion session, and submitting a final essay.

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Chamber Music (CHAMBER)

410 Chamber Music
31179 PI LAB 001 MTH 7-830PM ARR Albert
This course meets in 2257 Moore

510 Chamber Music
31180 PI LAB 001 MTH 7-830PM ARR Albert
This course meets in 2257 Moore

Clarinet (CLARINET)
111 Performance
24771 PI REC 001 ARR ARR

Composition (COMP)

221 Intro Elem Comp
13036 P W LEC 001 WTHF 1-2PM 706 BMT Etezady
Beginning course for non-music majors.

415 Intro Electron Mus
20817 A W LEC 001 TH 430-6PM 1350 MOORE Santos
22445 PI W LAB 002 M 430-530PM 3213 MOORE Santos
22446 PI W LAB 003 W 930-1030AM 3213 MOORE Santos
22447 PI W LAB 004 M 530-630PM 3213 MOORE Santos
22448 PI W LAB 005 W 530-630PM 3213 MOORE Santos

416 Sem Electron Mus
29826 PIR SEM 001 T 4-530PM DC Kuster
Class meets in EMS-B in the Duderstadt Center

421 Creative Comp
13040 P RW LEC 001 T 130-330PM 1370 SM Etezady

515 Intro Electron Mus
20818 A W LEC 001 TH 430-6PM 1350 MOORE Santos
22450 PI W LAB 003 W 930-1030AM ARR Santos
22451 PI W LAB 004 M 530-630PM ARR Santos
22452 PI W LAB 005 W 530-630PM ARR Santos

526 Adv Stdy Elec Mus
18063 PIR SEM 001 T 4-530PM DC Kuster
Class meets in EMS-B in the Duderstadt Center

Conducting (CONDUCT)

315 Elem Conducting
22481 P R REC 001 MWF 830-930AM 1320 MOORE Snyder

315 Elem Conducting
22481 P R REC 001 TTF 830-930AM 1378 SM

Instrumental

315 Elem Conducting
13063 P R REC 002 MWF 930-1030AM 1320 MOORE Snyder

315 Elem Conducting
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Wednesday class will be held in Studio 3054.
T/Th 12:30-2:30 will meet with Orpheus Singers in Stamps Auditorium.

For more information, please see [http://smtd.umich.edu/current_students/perf_opps/orchestras.htm](http://smtd.umich.edu/current_students/perf_opps/orchestras.htm) for audition requirements.
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**Woodwind Quintets**

**461 Small Woodwind Ens**

- **13106 P**  
  - **LAB 002 W**  
  - **630-8PM**  
  - **ARR McAllister**

**Saxophone Ensemble**

- **27632 P**  
  - **LAB 003**  
  - **ARR**  
  - **Ambrose King**

- **33554 P**  
  - **LAB 004 TH**  
  - **7-830PM**  
  - **ARR Burrow**

- **33555 P**  
  - **LAB 005 TH**  
  - **7-830PM**  
  - **ARR Lyman**

- **33556 P**  
  - **LAB 006 TH**  
  - **7-830PM**  
  - **ARR Porter**

**Chamber Jazz Ens**

- **13107 P R**  
  - **LAB 001 M**  
  - **1.00-2.00 ADVISORY**

**13108 PI**  
- **LAB 001 TH**  
- **7-830PM ARR McAllister**

**Saxophone Ensemble**

- **27632 P**  
  - **LAB 003**  
  - **ARR**  
  - **Ambrose King**

**Meets Thursdays at 4:30 in 3019 Moore.**

**Chamber Jazz Ens**

- **13107 P R**  
  - **LAB 001 M**  
  - **1.00-2.00 ADVISORY**

**Chamber Jazz Ens**

- **13107 P R**  
  - **LAB 001 M**  
  - **1.00-2.00 ADVISORY**

**Chamber Jazz Ens**

- **13108 PI**  
  - **LAB 001 T**  
  - **1.00-2.00 ADVISORY**

**Chamber Jazz Ens**

- **37901 P**  
  - **LAB 006 T**  
  - **1.00-2.00 ADVISORY**

**Chamber Jazz Ens**

- **37903 P**  
  - **LAB 007 W**  
  - **1.00-2.00 ADVISORY**

**Small Brass Ens**

- **13108 PI**  
  - **LAB 001 T**  
  - **1.00-2.00 ADVISORY**

**Small Brass Ens**

- **27702 P**  
  - **LAB 002 T**  
  - **1.00-2.00 ADVISORY**

**Freshman Horn Ens**

- **13109 P**  
  - **LAB 003 TH**  
  - **1.00-2.00 ADVISORY**

**Trombone Ensemble**

- **13110 P**  
  - **LAB 004 T**  
  - **1.00-2.00 ADVISORY**

**Tuba & Euphonium Ensemble**

- **22802 P**  
  - **LAB 005**  
  - **1.00-2.00 ADVISORY**

**Trumpet Ensemble**

- **33557 P**  
  - **LAB 006 TH**  
  - **1.00-2.00 ADVISORY**

- **33558 P**  
  - **LAB 007 TH**  
  - **1.00-2.00 ADVISORY**

**Chamber Music**

- **33500 P**  
  - **LAB 008 TH**  
  - **1.00-2.00 ADVISORY**

**Chamber Music**

- **33561 P**  
  - **LAB 009 TH**  
  - **1.00-2.00 ADVISORY**

**Small Percuss Ens**

- **17475 P R**  
  - **LAB 001 TTH**  
  - **1.00-2.00 ADVISORY**

**Monday evening is for Vencedores Samba Band rehearsals.**

**World Percussion Ensemble**

- **T/Th - Steel Band**
- **M - Samba Band**
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U of M Schedule of Classes Page 391 of 489 FA 2019 2260 09-09-2019 12:09 21610809
Euphonium-Baritone (EUPHBARI)

Flute (FLUTE)

Guitar (GUITAR)

111 Performance 2.00 ADVISORY
27199 P W REC 001 TTH 1030-1130AM 201 STRNS Hopkins
Guitar 111 is for beginners - those who have never played guitar or who have very little experience. If you do not own a guitar one will be provided for you to use during the semester. This is not a class for intermediate or advanced guitarists. If you have playing experience, please register for GUITAR 112.

The purpose of GUITAR 111 is to help students develop their guitar skills, with a primary focus on using the guitar as an accompaniment instrument. Right Hand skills covered will include finger picking, flat picking, and a variety of strumming patterns. Left Hand skills will include open chords, barre chords, melody chords, and basic scale patterns. Introduction to reading of standard music notation, guitar tablature, and chord symbols will be covered. Other topics that will be presented include improvisation, playing by ear, and using the capo for transposition.

112 Performance 2.00 ADVISORY
29687 P W REC 001 TTH 1130-1230PM 201 STRNS Hopkins
Guitar 112 is for intermediate level guitarists - who have played guitar previously. You should have some experience playing open chords, strumming, and either finger picking or flat picking. Some experience reading chord symbols, tablature, and/or standard music notation is helpful. If you do not have any previous experience please register for GUITAR 111.

You must have your own acoustic steel string or nylon string acoustic guitar for GUITAR 112.

GUITAR 112 will continue developing the skills introduced in GUITAR 111. Right Hand skills covered will include finger picking, flat picking, and a variety of strumming patterns. Left Hand skills will include open chords, barre chords, melody chords, pentatonic, blues, major, and minor scale patterns. Reading of standard music notation, guitar tablature, and chord symbols will be included. Other topics that will be covered include improvisation, playing by ear, and using the capo for transposition.

Harp (HARP)

Jazz & Improvisational Studies (JAZZ)

113 Jazz Piano 1.00
17001 PIR LAB 001 F 930-1030AM ARR Rowe
Class will meet in Studio: SM 2220. Jazz Majors Only.
17985 PIR LAB 002 W 930-1030AM ARR Rowe
Class will meet in Studio: SM 2220. Jazz Majors Only.

Basic Musicianship I 3.00 ADVISORY
16218 PIR LEC 001 TTH 830-1030AM 2058 MOORE Kirshenmann, Wood
17374 P SEM 001 T 4-6PM ARR Travers
20173 P SEM 002 T 202 STRNS Travers
20960 P SEM 003 W 630-830PM 202 STRNS Travers
25680 P SEM 004 TH 430-630PM 202 STRNS Travers
27375 P SEM 005 TH 630-830PM 202 STRNS Travers

Fundamentals of Rhythm A 1.00-4.00 ADVISORY
22225 P LEC 002 W 430-630PM 202 STRNS Travers
25743 P LEC 003 T 930-1030AM 1378 SM Okazaki
Fund Rhythm A: The Grid
This course is taught entirely by ear, without instruments or written materials. We will explore rhythms on human made grid systems such as even pulses, quantized subdivisions, metric cycles and song forms. Students will develop rhythmic accuracy, beginning with linear figures and working towards polyrhythmic structures. Special emphasis will be given to rhythmic concepts from India, West Africa, and other oral traditions that fall outside of the typical Western canon. All work will be done with singing and clapping in order to develop hearing, memory, and internalization. The second semester will continue with "Fundamentals of Rhythm B: The Continuum."

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### Class 
This course is taught entirely by ear, without instruments or written materials. We will explore rhythms on human made grid systems such as even pulses, quantized subdivisions, metric cycles and song forms. Students will develop rhythmic accuracy, beginning with linear figures and working towards polyrhythmic structures. Special emphasis will be given to rhythmic concepts from India, West Africa, and other oral traditions that fall outside of the typical Western canon. All work will be done with singing and clapping in order to develop hearing, memory, and internalization. The second semester will continue with "Fundamentals of Rhythm B: The Continuum."

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### Class Schedule

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### Rhythmic Training

**Fundamentals of Rhythm A: The Grid**

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### Music Education (MUSED)

**Art of Mus Teach**

**Tech for Music Ed**

**Tch Str instr I**

**Tch Woodwind instr**

**Tch Brass instr**

**Tch Percuss instr**

**Teach Gen Mus Elem**

**Sec Inst Meth**

**Spec Courses**

---

### Fieldwork Experience

**Teach Mus Unserved Students**

**Chor Cond Tec&Rp**

**Teach Lessons MS HS**

**String Pedagogy I**

---

### Suzuki Pedagogy: Violin/Viola

---

### Instructor

**Sarat Chisolm**

**Rodriguez**

**Hopkins**

**Conway**

**Salgado, Fitzpatrick**

**McCarthy**

**Fitzpatrick**

**Mutter**

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### Important Dates

- **FA 2019 09-09-2019 12:09 21610809**

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### Notes

- The course is taught entirely by ear, without instruments or written materials.
- Students will develop rhythmic accuracy, starting with linear figures and working towards polyrhythmic structures.
- Special emphasis will be given to rhythmic concepts from India, West Africa, and other oral traditions.
- All work will be done with singing and clapping to develop hearing, memory, and internalization.
- The second semester will continue with "Fundamentals of Rhythm B: The Continuum."
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**Musicology (MUSICOL)**

NOTE - GRADUATE STUDENTS MUST ELECT 500-LEVEL AND HIGHER COURSES.

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Sensory Studies
Whereas music and sound studies have focused on the auditory, sensory studies has challenged such singular sense paradigms. Drawing from practices in diverse world cultures, it has moved beyond the modernist five-sense model, analyzing the ways different senses inform each other, and foregrounding the social formation of the senses. In this seminar, we will engage this scholarship to explore the complex sensory engagements of the situated human sensorium, focusing in particular on how listening is informed and shaped by other sense modalities.

Course requirements will include weekly written responses to assigned readings, regular class participation, leading a class discussion, and a substantial research paper and its presentation in class.

Opera and Comedy
In this seminar we will develop a critical understanding of the role played by comedy and the comedic on the musical stage and we will probe a range of analytical and critical tools which put in evidence the historical and cultural significance of comedy as phenomenon and practice in 19th and 20th century culture. Genres studied include opera buffa, opera parody, operetta, and the revue; we will examine selected operatic productions and films foregrounding comedic purpose and critique.

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995 Diss-Cand
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Music Performance (MUSPERF)

291 Independent Study
  I  IND +  ARR  ARR  1.00-4.00

300 Video Game Music
  25684 P  LEC 001  TTH 4-5PM  UMMA AUD  Thompson

391 Independent Study
  I  IND +  ARR  ARR  1.00-4.00

401 Curr Practical Exp
  19031 PI  LEC 001  ARR  Halen
  19032 PI  LEC 004  ARR  Berofsky
  27904 PI  LEC 005  ARR  Jackson
  19386 PI  LEC 007  ARR  Aaron
  21228 PI  LEC 009  ARR  Kibbie
  21710 PI  LEC 011  ARR  Uffner-Elliott
  22472 PI  LEC 012  ARR  Masson
  23661 PI  LEC 013  ARR  Corey
  23800 PI  LEC 014  ARR  Porter
  24869 PI  LEC 016  ARR  Cantor
  34881 PI  LEC 030  ARR  Sarath
  24853 PI  LEC 054  ARR  Gascho
  30272 PI  LEC 105  ARR  Harding
  25834 PI  LEC 129  ARR  Greene
  37511 PI  LEC 209  ARR  Lusmann
  30538 PI  LEC 211  ARR  Washington
  26037 PI  LEC 240  ARR  Olsen
  25848 PI  LEC 306  ARR  Santos
  30566 PI  LEC 307  ARR  Chambers

440 Senior Recital
  I  IND +  ARR  ARR  0.00

491 Independent Study
  I  IND +  ARR  ARR  1.00-4.00

540 Masters Recital
  I  IND +  ARR  ARR  0.00

541 Mstr Chamber Recital
  I  IND +  ARR  ARR  0.00

550 Performance Seminar
  25858 PI  SEM 154  ARR  Votapek
  21327 P  SEM 161  ARR  Holland
  21329 P  SEM 162  ARR  Schotten
  27664 P  SEM 163  ARR  Coade
  21328 P  SEM 164  ARR  Jennings
  21325 P  SEM 172  ARR  Berofsky
  21200 P  SEM 178  ARR  Aaron
  22086 P  SEM 232  M  530-7PM  ARR  Halen

592 Pno Chamber Mus&Acc
  20690 PI  SEM 002  ARR  Berofsky

640 Specialist Recital
  I  IND +  ARR  ARR  0.00

781 Prof&Acad Developmt
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  13188 P  SEM 001  F  930-1130AM  3219 MOORE  Elliott
  13189 P  SEM 002  ARR  ARR  Katz
  Piano Accompanying
  13190 P  SEM 003  MW  330-430PM  2026 MOORE  Bengtson
  Piano

882 Contemp Direct Ens
  16403 PI  REC 002  TTH  1030-1230PM  1380 SM  Slywotzky

891 Directed Perform
  I  IND +  ARR  ARR  2.00-6.00  ADVISORY

990 Diss-Precand
  I  IND +  ARR  ARR  1.00-8.00  ADVISORY

Musical Theatre (MUSTHTRE)

123 Ballet Mus Thea I
  13203 PI  LAB 001  MW  9-1030AM  1455 WDC  DeJesus, Rice

123 Ballet Mus Thea I
  13203 PI  LAB 001  F  9-1030AM  POWER REHEARSAL  RM

133 Intro Mus Thtr I
  13204 PIRW LEC 001  TTH  430-545PM  2044 MOORE  Wagner

151 Tap Dance I
  13205 PI  LAB 001  TTH  10-1130AM  1455 WDC  Randazzo

207 Ind Study
  I  IND +  ARR  ARR  1.00-3.00  ADVISORY

235 Performance I
  I  IND +  ARR  ARR  3.00  ADVISORY
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Once you have joined the wait list for this course, please complete the application form found here (U-M Google login required): http://tinyurl.com/n3ksy2r

280  | Sound Reinforcement | 1.00 |

Sound Engineering Majors Only

| 300  | Res & Scholarship II | 1.00-3.00 |
| 24958 | P   LEC 002 | ARR | ARR | Granzow |
| 26487 | P   LEC 004 | ARR | ARR | Kirshner |
| 22200 | P   LEC 005 | ARR | ARR | Gurevich |
| 22201 | P   LEC 006 | ARR | ARR | O’Modhrain |
| 24959 | P   LEC 007 | ARR | ARR | Rush |
| 307  | Video Game Music | 2.00 |
| 24957 | P   LEC 001 | TTH | 4-5PM | UMMA AUD | Thompson |
| 331  | Sound Record Prod I | 3.00 |
| 13223 | A   RW 001 | MW | 3-430PM | 376 SM | Camci |
| 13224 | P   RW LAB 002 | T | 430-630PM | DC | Camci |
| 28748 | P   RW LAB 003 | T | 630-830PM | ARR | Camci |
| 13225 | P   RW LAB 004 | TH | 430-630PM | DC | Camci |
| 13226 | P   RW LAB 005 | TH | 630-830PM | DC | Camci |
| 380  | Sound for Thtre | 2.00 |
| 17048 | P   LEC 001 | TTH | 4-5PM | UMMA AUD | Thompson |

Sound Engineering Majors Only

| 400  | PAT Seminar | 0.50 |
| 27937 | P   SEM 001 | F | 230-4PM | 1350 MOORE | Granzow, O’Modhrain |
| 412  | Digital Mus Ensemble | 2.00 |
| 24444 | P   LEC 001 | MW | 1030-1230PM | 376 SM | Rush |
| 421  | Adv Psychoacoustics | 3.00 |
| 29751 | P   LEC 001 | TTH | 9-1030AM | 378 SM | O’Modhrain |
| 424  | Dialog of the Senses | 3.00 |
| 31213 | P   LEC 001 | TH | 1-4PM | 378 SM | O’Modhrain |
| 431  | Studio Production I | 3.00 |
| 16705 | P   RW LAB 001 | W | 6-9PM | ARR | Campana |

Sound Engineering Majors Only

Class to meet in the Duderstadt Audio Studio

| 443  | Immersive Media | 3.00 |
| 29988 | P   LEC 001 | MW | 1-230PM | 376 SM | Camci |
| 462  | Digital Sound Synth | 3.00 |
| 25353 | P   RW LEC 001 | TTH | 4-530PM | 378 SM | Granzow |

Sr Thesis Seminar

| 490  | Sr Thesis Seminar | 1.00-3.00 |
| 25577 | P   SEM 002 | ARR | ARR | Edwards |
| 25578 | P   SEM 003 | ARR | ARR | Dooley |
| 25579 | P   SEM 004 | ARR | ARR | Granzow |
| 25580 | P   SEM 006 | ARR | ARR | Gurevich |
| 25581 | P   SEM 007 | ARR | ARR | O’Modhrain |
| 27880 | P   SEM 331 | ARR | ARR | Camci |

Special Topics PAT

| 498  | Special Topics PAT | 3.00 |
| 32605 | P   LEC 001 | MW | 9-1030AM | 1374 SM | Rush |

Intro Elec Mus Prod

| 500  | Intro Elec Mus Prod | 3.00 |
| 31209 | P   LEC 001 | MW | 9-1030AM | 378 SM | Dooley |
| 31210 | P   LEC 002 | MW | 1030-12PM | 378 SM | Dooley |
| 31211 | P   LEC 003 | TTH | 1030-12PM | 378 SM | Edwards |

Intr to Computer Mus

| 501  | Intr to Computer Mus | 3.00 |
| 25879 | P   LAB 002 | TTH | 1-230PM | 378 SM | Edwards |
| 24785 | P   LAB 004 | TTH | 230-4PM | 378 SM | Edwards |

Special Course

| 502  | Special Course | 1.00-2.00 |
| 31212 | P   LEC 001 | MW | 1230-2PM | 378 SM | Santos |

Interdiscip Collab I

| 512  | Interdiscip Collab I | 1.00-3.00 |
| 24952 | P   LAB 001 | MW | 1030-1230PM | 378 SM | Rush |

This course meets with PAT 412: Digital Music Ensemble in MTL (SM 378)

Adv Psychoacoustics

| 521  | Adv Psychoacoustics | 3.00 |

U of M Schedule of Classes Page 398 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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### Piano (PIANO)

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The course is about the classical music traditions of North India, also known as Hindustani music. The first half of the course focuses on acquiring mastery over the basic musical materials of this idiom through singing, improvisation, and transcription exercises. The second half of the course builds on these skills to theorize about and analyze aspects of North Indian classical pitch (i.e. raga) and rhythmic (i.e. tala) structure, form, performance practice, and their connection to other musical idioms, including the classical music of South India, and the classical and popular musical traditions of the West.
### Trombone (TROMBONE)

### Trumpet-Cornet (TRUM)

### Tuba (TUBA)

### Viola (VIOLA)

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Theatre And Drama

Theatre & Drama (THTREMUS)

101 Intro to Acting I 3.00 ADVISORY
In order to be approved for enrollment, students must register on the waitlist and attend the first three classes.

13234 PI W REC 001 TTH 330-530PM 1415 WDC
13235 PI W REC 002 TTH 130-330PM B222 WDC Kassabova

102 Intro to Acting II 3.00 ADVISORY

28951 PI W REC 001 MW 3-5PM B222 WDC Traister

172 Movement I 2.00

181 Acting I 3.00 ADVISORY

13236 PI W REC 001 MW 1230-2PM 1415 WDC Eaton

192 Voice I 3.00 ADVISORY

13237 PI W REC 001 MW 1030-12PM 1415 WDC Danford

222 Intro Global Ethnic 3.00

22584 P W REC 001 TTH 330-530PM 1415 WDC Packard

In order to be approved for enrollment, students must register on the waitlist and attend the first three classes.

102 Intro to Acting II 3.00 ADVISORY

227 Intro Playwriting 3.00

19194 P W REC 001 MW 4-530PM 2439 WDC Casas

233 Rituals/Practices 3.00

31897 PI SEM 001 TTH 330-530PM 2415 WDC Tulip

240 Intro to Design 3.00 ADVISORY

14261 P W LEC 001 TTH 11-1PM 2239 WDC Murphy

241 Directing I 3.00 ADVISORY

13238 PI W REC 001 TTH 11-130-130PM 1415 WDC Cantor

Directing, D&P and BTA majors only

20262 PI W REC 002 TTH 330-530PM B222 WDC Packard

D&P, Interarts and BTA majors

33118 PI REC 003 MW 3-5PM 1435 WDC Osheroff

245 Intro Stage Managmt 2.00-3.00 ADVISORY

13239 PI W LEC 001 MW 11-12PM 2443 WDC Uffner-Elliott

250 Intro Tech Tht Prac 3.00

13240 PI W REC 001 MW 9-1030AM 2439 WDC Decker

Students must elect a lecture section AND a lab section.

D&P student section.

13241 PI W LEC 002 TTH 9-1030AM 2439 WDC Decker

Students must elect a lecture section AND a lab section.

Performance Student Section student section

13242 S W LAB 003 MW 1-3PM ARR Decker

13243 S W LAB 004 MW 3-5PM ARR Decker

13244 S W LAB 005 TTH 1-3PM ARR Decker

13245 S W LAB 006 TTH 3-5PM ARR Decker

13246 S W LAB 007 F 1-5PM ARR Decker

251 Practicium I 1.00

13247 P W LAB 001 ARR ARR Uffner-Elliott

252 Prod Practicium II 1.00 ADVISORY

13248 PI LAB 001 ARR ARR Decker

13249 PI LAB 003 ARR ARR Mountain

13250 PI LAB 005 ARR ARR Hahn

16251 PI LAB 007 ARR ARR Myers

16542 PI LAB 008 ARR ARR Auletti

13251 PI LAB 012 ARR ARR Uffner-Elliott

17896 PI LAB 013 ARR ARR Drone

13252 PI LAB 018 ARR ARR Murphy

13253 PI LAB 025 ARR ARR Lindsay

13254 PI LAB 026 ARR ARR Bacon

13255 PI LAB 028 ARR ARR Reynolds III

21951 PI LAB 030 ARR ARR Brinker

13256 PI LAB 031 ARR ARR Berg

21085 PI LAB 037 ARR ARR Wagner

256 Lighting Design I 3.00 ADVISORY

14263 PI W LEC 001 TTH 3-11AM 2413 WDC Murphy

260 Scene Design I 3.00 ADVISORY

13257 PI W REC 001 TTH 230-4PM 2239 WDC Mountain

261 Practicium III 1.00 ADVISORY

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Rendering meets in Design Studio: Room 2419 WDC.

Sophomore BFA Actors

Meets with THTREMUS 456 in 2419 Walgreen Drama Center
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In this four credit drama course students will explore major American plays of the 20th century through the process of text analysis through performance. We will work on plays by major writers such as Arthur Miller, Tennessee Williams, Lorraine Hansberry, Sam Shepard and Tony Kushner. For each play we will discuss dramaturgical background, script and character analysis and put scenes on their feet for constructive critique. Written assignments will center on a journal which will include a series of actor's explorations of motivations and actions. Students will also be responsible for writing critiques of two productions. The course culminates in a public performance of a cutting of a major play, most likely Tony Kushner's "Angels in America."

In this four-credit drama course students will explore major American plays of the 20th century through the process of text analysis through performance. We will work on plays by major writers such as Arthur Miller, Tennessee Williams, Lorraine Hansberry, Sam Shepard and Tony Kushner. For each play we will discuss dramaturgical background, script and character analysis and put scenes on their feet for constructive critique. Written assignments will center on a journal, which will include a series of actor's explorations of motivations and actions. Students will also be responsible for writing critiques of two productions. The course culminates in a public performance of a cutting of a major play, most likely Tony Kushner's "Angels in America."

Producing Independent Theatre
This interdisciplinary course examines processes, theories of producing independent theatre and performance in the United States in the 21st Century. The course will include theoretical readings and discussions, occasional field trips to Detroit, and guest speakers from the Detroit cultural landscape. The term &quot;producer&quot; will take on all the many forms it does in the theatre -- producer of: artworks, goods, services, spaces, experiences, capital, etc. Students will be expected to produce scholarly as well as creative responses to course material.

Darce World: Low Comedy
Masterpieces of Tragedy: Renaissance to Modern
Creating Original Theatre
Drama from Ibsen to Beckett
Out of the Blue Choir
Prison Vocal Workshop

400 Directed Reading I IND + AR 1.00-3.00 ADVISORY
401 Independent Study I IND + AR 1.00-3.00 ADVISORY
403 D & P Seminar 20294 P I REC 001 F 12-130PM 2439 WDC Decker
404 D & P Seminar 20976 P I REC 001 F 12-130PM 2439 WDC Decker
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For possible permission to register the following form must be submitted: coming soon

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 October 19 and all pre-learning work must be complete prior to this required session.

Outside of Class Pre-learning Work: 9/9/19 -10/11/19

All Day Workshop: 10/19/19

Outside of Class Post-work: 10/21-10/26/19

Class meets:
1. Outside of Class Pre-learning Work: 10/21/19-11/22/19
2. All Day Workshop: 11/23/19
3. Outside of Class Post-work: 11/25/19-12/6/19

HS 612 will meet on September 6, October 4, November 8, and December 6 in 400 NIB 1184.

HS 650 will meet in 426 NIB 1240 on all dates except October 23. HS 650 will meet in 426 NIB 1000 on October 23.

HS 710 will meet on September 6, October 4, November 8, and December 6 in 400 NIB 1180.

HS 802 will meet on September 5, October 3, November 7, and December 5 in 400NIB.

HS 851 Applied Inference 1.00-4.00 ADVISORY

23493 A LEC 001 M 8-11AM Liu
23494 P LAB 002 M 8-11AM Liu

HS 888 Observation Research 3.00
31803 P SEM 001 TH 9-12PM Kusunoki

Nursing (NURS)

142 Nursing Seminar 2.00
30031 P SEM 001 F 9-11AM Coleman-Burns, Keune

218 Applied Statistics 3.00
36072 P LEC 001 MW 1130-1PM Anderson

220 Women’s Hlth 3.00
13369 A W LEC 001 W 530-730PM Bailey

OPEN TO C E W STUDENTS:

232 Hlth Assessment 2.00 ENFORCED
31800 P LEC 001 T 1130-130PM Leech

233 Hlth Assessment Lab 2.00 ENFORCED
31801 P LAB 001 M 7-10AM Leech
32810 P LAB 002 M 7-10AM Hesseltine
32811 P LAB 003 M 7-10AM George
32812 P LAB 004 M 7-10AM Keune
32813 P LAB 005 M 1030-130PM Leech
32814 P LAB 006 M 1030-130PM Marsack
32815 P LAB 007 M 1030-130PM George
32816 P LAB 008 M 1030-130PM Keune
32817 P LAB 009 M 2-5PM Marsack
32818 P LAB 010 M 2-5PM Burns
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This class is taught completely online.

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#### Class Schedule

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N504 will meet on 9/5, 10/3, 11/7, and 12/5 in 400 NIB 3151.

### Foundations Innovat
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N509 will meet on 9/5, 10/3, 11/7, and 12/5 in 400 NIB 3151.

### Mod, Theor & Methods
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N533 will meet on September 6, October 4, November 8, and December 6 in 3156 400NIB.

### Peds Adv Mgmt II
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In addition to meeting on Thursdays from 9am-12pm, NURS 552 will also meet on 9/26, 10/10, 10/31, and 11/21 from 1pm-4pm in 2184 401NIB.

### AGAPN Clin Pract I
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N637 will meet on 9/12, 9/19, 10/24, and 11/4 from 4pm-7pm in 2184 401NIB. N637 will also meet on 10/10 and 10/24 from 1pm-4pm in 2184 401NIB. N637 will also meet on 11/4 and 11/18 in the simulation lab.

### Nurs-Childbear Fam
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### U of M Schedule of Classes

Page 411 of 489

FA 2019 2260 09-09-2019 12:09 21610809
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**Professional Nursing Education (PNE) **

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**Professional Nursing Education (PNE) **
PNE 305 will meet during the first half of the term. Students will attend SIMS on Tuesdays from 8am-2pm.

306  Repr Health Cln 4.00
23516 P  CLN 001 W  7-3PM WOMEN’S HOSP  Bradshawn
PNE 306 will meet during the second half of the term. Students will attend SIMS on Tuesdays from 8am-2pm.

307  Repr Health Cln 4.00
23517 P  CLN 001 M  7-3PM WOMEN’S HOSP  Buslawski
PNE 307 will meet during the first half of the term. Students will attend SIMS on Tuesdays from 8am-2pm.

308  Repr Health Cln 4.00
24505 P  CLN 001 M  7-3PM WOMEN’S HOSP  Buslawski
PNE 308 will meet during the second half of the term. Students will attend SIMS on Tuesdays from 8am-2pm.

309  Repr Health Cln 4.00
24571 P  CLN 001 T  2-10PM WOMEN’S HOSP
PNE 309 will meet during the first half of the term. Students will attend SIMS on Fridays from 8am-2pm.

310  Repr Health Cln 4.00
24572 P  CLN 001 T  2-10PM WOMEN’S HOSP
PNE 310 will meet during the second half of the term. Students will attend SIMS on Fridays from 8am-2pm.

326  Child Hlth&Illn Cln 4.00
23532 P  CLN 001 T  7-730PM UM HOSP  Russell
PNE 326 will meet during the first half of the term. The clinical location for PNE 326 will be 11W Mott. Students will attend SIMS on Wednesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

327  Child Hlth&Illn Cln 4.00
23533 P  CLN 001 T  7-730PM UM HOSP  Russell
PNE 327 will meet during the second half of the term. The clinical location for PNE 327 will be 11W Mott. Students will attend SIMS on Wednesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

328  Child Hlth&Illn Cln 4.00
23534 P  CLN 001 W  7-730PM UM HOSP  Diclemente
PNE 328 will meet during the first half of the term. The clinical location for PNE 328 will be 11W Mott. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

329  Child Hlth&Illn Cln 4.00
23535 P  CLN 001 W  7-730PM UM HOSP  Ursuy
PNE 329 will meet during the second half of the term. The clinical location for PNE 329 will be a combination of inpatient on 12E Mott and outpatient pediatric locations on Tuesdays and Wednesdays. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

330  Child Hlth&Illn Cln 4.00
23536 P  CLN 001 W  7-730PM UM HOSP  Ursuy
PNE 330 will meet during the first half of the term. The clinical location for PNE 330 will be 12E Mott. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

331  Child Hlth&Illn Cln 4.00
23537 P  CLN 001 W  7-730PM UM HOSP  Diclemente
PNE 331 will meet during the second half of the term. The clinical location for PNE 331 will be a combination of inpatient on 12E Mott and outpatient pediatric locations on Tuesdays and Wednesdays. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

332  Child Hlth&Illn Cln 4.00
23538 P  CLN 001 W  7-730PM UM HOSP  Pratt
PNE 332 will meet during the first half of the term. The clinical location for PNE 332 will be 12W Mott. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

333  Child Hlth&Illn Cln 4.00
24506 P  CLN 001 W  7-730PM UM HOSP  Pratt
PNE 333 will meet during the second half of the term. The clinical location for PNE 333 will be 12W Mott. Students will attend SIMS on Tuesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

334  Child Hlth&Illn Cln 4.00
24573 P  CLN 001 T  7-730PM UM HOSP  Ratliff
PNE 334 will meet during the first half of the term. The clinical location for PNE 334 will be 12W Mott. Students will attend SIMS on Wednesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

335  Child Hlth&Illn Cln 4.00
24574 P  CLN 001 T  7-730PM UM HOSP  Ratliff
PNE 335 will meet during the second half of the term. The clinical location for PNE 335 will be 12W Mott. Students will attend SIMS on Wednesdays 8:00am to 4:00pm. Students will attend Howell schools for one Friday, date TBD.

351  Adult Hlth&Illn Cln 4.00
23527 P  CLN 001 TTH 630-430PM 4A UM HOSP  Goff
PNE 351 will meet during the first half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 9/10/19.

352  Adult Hlth&Illn Cln 4.00
23529 P  CLN 001 TTH 630-430PM 4A UM HOSP  Goff
PNE 352 will meet during the second half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 10/29/19.

355  Adult Hlth&Illn Cln 4.00
23530 P  CLN 001 TTH 630-430PM UM HOSP  Harden, Lopes
PNE 355 will meet during the first half of the term. Clinical location will be UM Hospital 4B. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 9/10/19.

357  Adult Hlth&Illn Cln 4.00
23531 P  CLN 001 TTH 630-430PM UM HOSP  Harden, Lopes
PNE 357 will meet during the second half of the term. Clinical location will be UM Hospital 4B. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 10/29/19.

359  Adult Hlth&Illn Cln 4.00
23612 P  CLN 001 TTH 630-430PM UM HOSP  Prochnow, Ferguson
PNE 359 will meet during the first half of the term. Clinical location will be UM Hospital 7B. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 9/10/19.

360  Adult Hlth&Illn Cln 4.00

U of M Schedule of Classes  Page 413 of 489  FA 2019 2260 09-09-2019 12:09 21610809
PNE 360 will meet during the second half of the term. Clinical location will be UM Hospital 7B. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 10/29/19.

PNE 361 will meet during the first half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 9/10/19.

PNE 362 will meet during the second half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 10/29/19.

PNE 363 will meet during the first half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 9/10/19.

PNE 364 will meet during the second half of the term. Students will attend two SIMS on Fridays, dates TBD. Blitz will be on 10/29/19.

PNE 376 will meet during the first half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 2pm-6pm. Orientation will be on Monday, 9/9/19 from 8am-2:30pm.

PNE 377 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Fridays from 2pm-6pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

PNE 378 will meet during the first half of the term. The clinical location will be UM HOSP 9C/8ECAP and clinical time spent in the community, mainly on Thursdays. Students will attend SIMS on Thursdays from 2pm-6pm. Orientation will be on Monday, 9/9/19 from 8am-2:30pm.

PNE 380 will meet during the first half of the term. The clinical location will be a combination of inpatient and outpatient psych experiences (with the outpatient days/times TBD). Students will attend SIMS on Tuesdays from 8am-12pm.

PNE 381 will meet during the second half of the term. The clinical location will be a combination of inpatient UM HOSP 9C/8ECAP and outpatient psych (days and times TBD).

PNE 382 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Thursdays from 8am-12pm. Orientation will be on Monday, 9/9/19 from 8am-2:30pm.

PNE 383 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Thursdays from 8am-12pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

PNE 384 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 8am-12pm. Orientation will be on Monday, 9/9/19 from 8am-2:30pm.

PNE 385 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 8am-12pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

PNE 386 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 8am-12pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

PNE 387 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 8am-12pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

PNE 388 will meet during the second half of the term. The clinical location will be UM HOSP 9C/8ECAP. Students will attend SIMS on Mondays from 8am-12pm. Orientation will be on Thursday, 10/24/19 from 8am-2:30pm.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 401 include Ann Arbor, Plymouth, Brighton, and MVN.

Orientation will be held on 9/4/19 from 9am-4pm. The clinical locations for PNE 402 include Project Healthy Schools.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 403 include Washtenaw County Health Department and a video conference with Haiti.
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Orientation will be held on 9/4/19 from 9am-4pm. The clinical locations for PNE 404 include the Wayne County Health Department.

Orientation will be held on 9/4/19 from 9am-4pm. The clinical locations for PNE 406 include Ypsilanti Head Start and Ypsilanti Meals on Wheels.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 407 include CCRC and PACE.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 408 include GL Hospice CCRC Glazier.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 409 include Hamilton Clinic and the Flint Area.

Orientation will be held on 9/5/19 from 9am-4pm. The clinical locations for PNE 410 include the Jackson County Area, CFH, and CAA.
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SIMS on one Monday for four hours. The date and time are TBD.

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This is a precepted clinical course. Students will follow the preceptor's work schedule. Students will meet for
SIMS on one Monday for four hours. The date and time are TBD.
# Officer Education Programs

## Air Force Officer Education Program (AERO)

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### Army Officer Education Program

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Pharmacy
College Of Pharmacy

Clinical Pharmacy Translational Science (CPTS)

801 Grant Proposal I 2.00 ADVISORY
30095 P LEC 001 T 230-430PM ARR Farris, Hertz
Graduate standing or permission of the instructor.
This class will meet in Room 2560I, Located in the Clinical Pharmacy Suite, 2nd Floor College of Pharmacy.

803 Grant Proposal III 2.00 ADVISORY
32260 P LEC 001 T 10-12PM ARR Stringer, Farris
Graduate standing or permission of the instructor.
This class will meet in Room 2560I, Located in the Clinical Pharmacy Suite, 2nd Floor College of Pharmacy.

824 Metabol & Proteomics 3.00 ADVISORY
32390 P LEC 001 TH 230-530PM ARR Zhu, Stringer
Graduate standing or permission of the instructor.
This Class will meet in the College of Pharmacy Building Room B022.

834 Patient Rep Outcomes 1.00 ADVISORY
32261 P SEM 001 TH 8-10AM ARR Erickson
Graduate standing or permission of the instructor.
This class will meet in Room 2560I, Located in the Clinical Pharmacy Suite, 2nd Floor College of Pharmacy.

Medicinal Chemistry (MEDCHEM)

447 Drugs from Algae 3.00 ENFORCED
31970 P R LAB 001 ARR ARR Sherman
Prerequisites: Chem 130 or equivalent; BIO171 or equivalent.
This field-based class is taught in residence at the University of Michigan Biological Station (UMBS) in Pellston, Michigan August 2-17, 2019. Students will continue working in the CORT lab during the fall term.

470 UG Research Med Chem 1.00-6.00
500 Princ Drug Act I 3.00 ADVISORY
23950 A LEC 001 MF 1-2PM 1544 NUB Scott
27425 A LEC 001 W 1-3PM 1544 NUB Scott
27411 PD LAB 003 T 11-12PM 1552 NUB Beleh
27412 PD LAB 004 T 12-1PM 1552 NUB Beleh
27413 PD LAB 005 T 1-2PM 1552 NUB Beleh
27414 PD LAB 006 T 2-3PM 1552 NUB Beleh

501 Chemical Biology I 3.00
17610 PD SEM 001 MWF 8-9AM 1250 USB Koutmou, Palfey, Koutmos

532 Biogpr Prin Med Chm 3.00 ADVISORY
14452 P LEC 001 MW 1-230PM ARR Neamati

570 Research
573 Investig Med Chem
600 Princ of Drug Act 3
621 Drug Disc & Ther
22824 P DIS 001 TH 10-12PM ARR

660 RCRS 0.50
*Please note: Permission to enroll in this course will be granted at the College Orientation, and books will be loaned to students for the year. This class meets the first Wednesday of the month during both Fall and Winter terms (with some exceptions). Students must enroll in the course each term. Please consult CANVAS site for complete course schedule and assignments. First class meeting, September 4, 2019.

700 Princ of Drug Act V 3.00 ADVISORY
21413 PD LEC 001 M 930-1130AM 110 WEISER-TBL Sherman
21415 AD DIS 002 F 2-4PM 1060 BSB-TBL

740 Prep Grant Proposal 1.00 ADVISORY
13391 PD REC 001 W 330-430PM ARR Sexton
Please note: Course meets in Room 2739 Furstenberg, Medical Sciences II Building (Med Sci II).

840 Seminar-Med Chem 1.00 ADVISORY
25198 PD SEM 001 TH 4-530PM 2548 NUB

990 Diss-Precand 1.00-6.00 ADVISORY
995 Diss-Cand 8.00 ENFORCED

U of M Schedule of Classes Page 421 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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The course description can be found at: https://pharmacy.umich.edu/service. Note that permission is required to register for this course. Kineslgy 581, MoveSci 481, Pharmacy 503, PubHlth 503, and Social Work 573 are cross listed courses. If you would like to register for Kineslgy 581, MoveSci 481, SW 573 or PubHlth 503 please send a request, including your student ID#, to ServiceForHealth@umich.edu.

Interested students must email Dr. Nancy Mason for permission to enroll. Email: nmason@umich.edu.
### Pharmaceutical Sciences (PHARMSCI)

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3rd Year Pharmacy students and Nursing students with Pharmacology.

#### Enforced Prerequisites
- Completion of General Chemistry
- Recommended: Completion of/concurrent enrollment in Calculus I.

This course is open to students entering their final year in the BSPS program. Students will be required to attend fall term seminars offered by the Department of Clinical Pharmacy, Medicinal Chemistry, or Pharmaceutical Sciences (other program related seminars with permission). Please see Department websites for seminar schedules. Additional information will be provided at first class meeting on 9/10/19.
### Public Health

#### Biostatistics Department

**Biostatistics (BIOSTAT)**

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For questions about overrides, please contact Nicole Fenech at fenechn@umich.edu

This course meets online and requires proctored exams.

**521 Appl Biostatistics**

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For questions about overrides, please contact Nicole Fenech at fenechn@umich.edu

**523 EPID Stat Methods**

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**524 Bio-Clin Researcher**

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**578 Practical Training**

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**600 Intro to Biostat**

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Non-SPH students seeking overrides should contact fenechn@umich.edu in mid-August.

**601 Prob&Distrib Theory**

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**605 Intro SAS Stat Prgrm**

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10 weeks beginning 9/20/17.

Class is held two weeks before the Fall semester starts, Monday, through Friday, 9am-4pm.

**606 Intro Biocomputing**

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**607 Basic Computing**

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- **10 weeks beginning 9/20/17.**
- **Class is held two weeks before the Fall semester starts, Monday, through Friday, 9am-4pm.**
- **For questions about overrides, please contact Nicole Fenech at fenechn@umich.edu**
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This course will meet in 1138 SPH2 on November 20th ONLY.
# Epidemiology Department

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Section 333 of this course is reserved for students in the On Job On Campus Clinical Research Design and Statistical Analysis Program (OJOC CRDSA) program. At this time, students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register for these sections.

This course will meet in 1170 SPH2 on November 20th ONLY.

This class is for Epid MPH second year students only.

This class is for Epid MPH second year students only.

This class is for Epid MPH second year students only.
This course will meet in room M5026, SPH2

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U of M Schedule of Classes Page 428 of 489
Health Management And Policy

Health Management And Policy (HMP)

565  Spreadsht Modeling  1.00  ADVISORY
30198 PD  LEC 001  ARR  ARR  Hutton
27538 PD  LEC 777  ARR  ARR  Hutton

This is a course for the students in the HMP Executive Masters program only.

600  Hlth Serv Syst I  3.00  ADVISORY
13438 P  LEC 001  TTH 1-230PM  3755 SPH1  Anthony, Avancena
36747 PD  LEC 002  ARR  ARR  Anthony

Section 777 of this course is reserved for students in the Executive Masters program. At this time, students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register for these sections.

20548 PD  LEC 777  ARR  ARR  Anthony

601  Healthcare Quality  3.00  ENFORCED
27494 PDR  LEC 777  ARR  ARR  McCullough, Zhou

HMP Executive Masters program ONLY. Students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register.

604  Mgmt of Hlth Nonprof  3.00  ADVISORY
24904 P  LEC 001  TTH 1-230PM  3755 SPH1  Des Jardins
33863 PDR  LEC 002  ARR  ARR  McCullough

Section 777 of this course is reserved for students in the Executive Masters program. At this time, students in the residential Masters (i.e., MPH, MHSA, MHI, and MS) programs are not permitted to register for these sections.

608  Hlth Care Fin Acct  1.00-2.00
17264 P  LEC 001  W 1-3PM  1655 SPH1A  Comstock, Rosenblum, Cooper

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

610  Cost-Effectiveness  3.00  ADVISORY
19282 P  LEC 001  W 10-1130AM  3755 SPH1  Hutton
24970 PDR  LEC 002  ARR  ARR  Hutton

This section open only to one year MD students in HMP.

615  Intro Pub Hlth Pol  3.00
21784 P  LEC 001  TTH 10-1130AM  1690 SPH1A  Greer, Moore-Petinak

620  Professional Develop  1.00
21878 P  DIS 001  F 11-1230PM  1690 SPH1A  Killaly

625  Comp H Pol & Mgmt  3.00
29933 P  DIS 001  F 9-12PM  1123 SPH2  Greer

630  Business of Biology  2.25
23151 PRW  REC 001  MW 830-10AM  B3570 BUS  Canter

630  Business of Biology  2.25
P  REC 001  T  5-7PM  B3570 BUS
P  REC 001  T  5-7PM  B3570 BUS

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

648  Eval Methods in HI  3.00  ADVISORY
25384 P  LEC 001  F 9-12PM  1255 NQ  Friedman

652  Health Law  3.00  ADVISORY
17560 P  RW  LEC 001  TTH 130-3PM  1112 SPH2  Napiewocki

654  Oper&Control Syst  3.00  ADVISORY
13439 P  RW  LEC 001  T  9-12PM  1655 SPH1A  Dicheva, Moreno-Hernandez
36963 PD  LEC 777  ARR  ARR  Dicheva

663  Intro Economic Eval  1.00  ENFORCED
32409 P  SEM 001  W 3-6PM  3755 SPH1  Mattioli

668  Intro Health Infor  3.00  ADVISORY, ENFORCED
21484 P  RW  LEC 001  MW 430-6PM  2260 USB  Flynn, Brannon

674  Economics of Health  2.00  ENFORCED
32407 P  LEC 001  W 3-6PM  3755 SPH1  Norton, Parker

680  Special Topics HMP  1.00-3.00
24662 P  RW  DIS 001  ARR  ARR  Horton

Transformational Leadership Class will meet Wednesdays and Fridays from 9/25-10/11. Instructor will provide detailed schedule at first meeting.

681  Spec Topics in HMP  1.50
33781 P  SEM 001  TTH 330-5PM  1122 SPH2  Dotson

Case Analysis and Competition Students interested and/or selected to compete in department sponsored case competitions are encouraged to participate in this course. The course will develop skills at analyzing strategically oriented cases in healthcare management. It is structured to help the students understand and analyze the importance of working in teams, working with difficult personalities, and present as a confident and cohesive unit.

33782 P  SEM 002  TTH 330-5PM  1122 SPH2  Dotson

Mgmt Impli of Hlth Equity While many will agree that health disparities exist, the process to eliminate them and address the inequities in health system access over many decades is still being parsed out in the literature. In this course, we will
redefine knowledge of health disparities through a health equity lens to explore the implications of managerial solutions as they pertain to health care organizations. We will use systematic, clinical, and social issues of origin to both explain and try to resolve management’s role in addressing health equity.

690 Readings
I IND + ARR ARR 1.00-4.00 ADVISORY

691 Seminar Series
19549 PD LEC 777 ARR ARR 1.00 Liang

693 US-Mental Hlt Policy
29401 PR SEM 001 TH 4-7PM 2695 SPH1A 3.00 ADVISORY, ENFORCED Eisenberg

802 Intro Hlt Pol Res
22674 PI DIS 001 W 1130-230PM ARR 3.00 Eisenberg, Ryan

803 Seminar in HSSR I
21262 PD SEM 001 F 1-330PM ARR 1.00 Lee

804 Seminar in HSSR II
21126 PD LEC 001 W 2-430PM 1123 SPH2 1.00 Greer, Jarman

806 Seminar in HSSR IV
37211 P SEM 001 M 1130-2PM ARR 1.00 Norton

815 Readings
I IND + ARR ARR 1.00-4.00 ADVISORY

833 Research Topics
I IND + ARR ARR 3.00 ADVISORY

835 Research Practicum
I IND + ARR ARR 3.00-6.00 ADVISORY

990 Diss-Precand
IR IND + ARR ARR 1.00-8.00 ADVISORY

995 Diss-Cand
IR IND + ARR ARR 8.00 ENFORCED
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School Of Public Health

Public Health (PUBHLTH)

**200 Health & Society**

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- **20235 P W DIS 002** T 4-5PM 1123 SPH2 Arntson
- **20236 P W DIS 003** W 9-10AM 1123 SPH2 Raj
- **20237 P W DIS 004** W 10-11AM 2690 SPH1A Felker
- **20238 P W DIS 005** W 11-12PM 2690 SPH1A Rajaee
- **20239 P W DIS 006** W 1-2PM 2690 SPH1A Rajaee
- **20240 P W DIS 007** W 2-3PM 2690 SPH1A Rajaee
- **20241 P W DIS 008** W 12-1PM 2690 SPH1A Raj
- **20242 P W DIS 009** W 3-4PM 2690 SPH1A Arntson
- **20243 P W DIS 010** TH 9-10AM 2690 SPH1A Felker
- **20263 P W DIS 011** TH 11-12PM 1123 SPH2 Carson
- **20832 P W DIS 012** TH 12-1PM 1123 SPH2 Carson
- **20833 P W DIS 013** TH 4-5PM 1123 SPH2 Carson
- **20834 P W DIS 014** F 10-11AM 2690 SPH1A Raj
- **20835 P W DIS 015** TH 1-2PM 2690 SPH1A Raj
- **20836 P W DIS 016** F 12-1PM 1123 SPH2 Felker
- **22396 P W DIS 017** T 4-5PM 2690 SPH1A Ward
- **22397 P W DIS 018** TH 1-2PM 1123 SPH2 Ward
- **22398 P W DIS 019** TH 4-5PM 2690 SPH1A Ward

**300 Behav Soc HP**

- **31340 A LEC 001** MW 4-530PM 1112 SPH2 Strecher

**305 Environ Health**

- **25375 P RW LEC 001** TTH 1-230PM 1152 SPH2 Rozek

**311 Pub Hlth Genetics**

- **25275 P W LEC 001** TTH 830-10AM 2690 SPH2 Marris

**312 PH Politics**

- **32624 P RW LEC 001** MW 3-430PM 4332 SPH2 Greer
### Global Public Health

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

Students planning to apply to the public health major should not enroll in this course.

### Pub Hlth Bio Pathphy

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### Pub Hlth Systems

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### Creating Change

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### PUBHLTH Cancer

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

### Obesity:CellsSociety

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jmconv@umich.edu

### Infection History

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

### Public Mental Health

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

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For registration questions, contact Jillian McConville:

jmconv@umich.edu

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The course description can be found at: https://pharmacy.umich.edu/service. Note that permission is required to register for this course. Kineslgy 581, MoveSci 481, Pharmacy 503, PubHlth 503, and Social Work 573 are cross listed courses. If you would like to register for Kineslgy 581, MoveSci 481, SW 573 or PubHlth 503 please send a request, including your student ID#, to ServiceForHealth@umich.edu.

### Social Determinants

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<td>PD 002 W 315-415PM</td>
<td>Sankaran, Carr, Wandel</td>
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All group sessions will take place at either the School of Public Health or the Taubman Health Sciences Library. You will be notified of your session location a week prior to your scheduled time.

Non-law graduate/professional students may apply for the course using the PSI application system (https://problemsolving.law.umich.edu/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is open to all University of Michigan graduate and professional students. Please note: Non-Law students are responsible for checking with their own schools, colleges, or units to learn if a PSI class will count toward graduation or other departmental requirements.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Some states, including California and Minnesota, reduce toxic airborne emissions and promote better health outcomes for residents by measuring the cumulative impact of hazardous air pollutants. In this class, students will determine why Michigan has failed to adopt such a cumulative impact approach. Students will incorporate ideas from environmental studies, law, health sciences, design, social work, and other fields to advance a solution that accounts for multiple, geographically-concentrated pollution sources and promotes environmental justice for all Michigan residents.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). The U.S.’ unemployment insurance (UI) system faces challenges, including outdated eligibility requirements, fallout from the financial crisis, and insufficient funding. Students will study state UI system vulnerabilities and explore novel federal public policy and financing strategies to develop a plan to improve and modernize the UI safety net, drawing on insights from law, public policy, business, social work, economics and other relevant fields.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.
# Public Policy

## School Of Public Policy

### Public Policy (PUBPOL)

**201 Systematic Thinking**  
4.00  ADVISORY, ENFORCED  
Hall, Reilly, Shapiro  
The main idea that we want to get across is implicit in the title: Systematic thinking - largely from the social sciences but with the application of scientific methods and knowledge more generally - can make a significant difference in the way we approach and solve current policy problems. This is a sophomore level course, offered for four credit hours. The class consists of three hours of lecture and one section meeting each week. The course is divided into four or five modules, each of which takes up a different policy topic. For each topic, there will be at least two faculty members who teach the module together. In past years the topics have included strategies for dealing with Bird Flu, the Kyoto accords and policy related to global warming, No Child Left Behind and other national education policy issues, copyright laws and file sharing, electoral college reform, world poverty, and globalization and international trade. Pre-reqs: Econ 101 and at least one other introductory social science class. Concurrent enrollment in Econ 101 is permitted. PubPol 201 provides an introduction to the field of public policy. Students who like 201 might want to look into the BA in Public Policy, a junior/senior year liberal arts program that emphasizes multidisciplinary training in the social sciences as a way of thinking about both domestic and international policy problems.

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### 210 Health & Society

**20247 Health & Society**  
4.00  
Franzblau, Youatt  
This course introduces students to the adoption and implementation of environmental policy, with primary emphasis on the United States. It draws heavily from the discipline of political science in examining environmental politics and how this body of theory translates into public policy. Unlike many policy courses that focus exclusively on either national or international institutions, this course will concentrate on federal, state, and local governance and relations across these levels. In turn, we will frequently compare the respective abilities of state and federal governments to both enact and implement environmental policy, drawing on past experience to consider what the ?next generation? of American environmental policy might entail.

### 290 Independent Study

**290 Independent Study**  
1.00-3.00  
Rabe  
This course prepares students to understand the political and institutional environment within which public policy is formulated and implemented. The primary focus will be on policy processes within the United States, but some attention will be paid to the policy process in other countries and/or the international political system.

### 312 Env Politics&Policy

**312 Env Politics&Policy**  
3.00  
Rabe  
This course introduces students to the adoption and implementation of environmental policy, with primary emphasis on the United States. It draws heavily from the discipline of political science in examining environmental politics and how this body of theory translates into public policy. Unlike many policy courses that focus exclusively on either national or international institutions, this course will concentrate on federal, state, and local governance and relations across these levels. In turn, we will frequently compare the respective abilities of state and federal governments to both enact and implement environmental policy, drawing on past experience to consider what the ?next generation? of American environmental policy might entail.

### 320 Politics & Pub Pol

**320 Politics & Pub Pol**  
4.00  
Lin, Van Horn  
This course prepares students to understand the political and institutional environment within which public policy is formulated and implemented. The primary focus will be on policy processes within the United States, but some attention will be paid to the policy process in other countries and/or the international political system.

### 330 Microeconomics

**330 Microeconomics**  
4.00  ADVISORY  
Stevenson, Furmaniuk  
This course develops students’ abilities to use microeconomic analysis to further our understanding of public policy. Major topics include models of consumer and firm behavior, operation of market systems, public goods and externalities, market failure, benefit-cost analysis, and the impacts of government regulation on economic policy. Advisory Pre-requisite: MATH 115.
This course is designed to familiarize students with core skills in data access, manipulation, analysis, and visualization. This course will introduce students to data visualization, from principles to practice. Topics in the course will include: principles of data communication, understanding data, grouping and summarization, static presentation of data, 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.
produce for politics, the economy, the environment, justice, equality, human rights and human lives in the
everyday. This course will introduce students to the intellectual and technical rigors of democratic, non-violent
and effective leadership in the spheres of policy, the law and society. It will explore the social and political
endeavors of such leaders and movements to address the difficult questions facing our world and lives today. In
this way it will provide an overview of how leaders negotiate, manage and resolve conflicts in organizational and
intra-organizational settings. Importantly it will provide students with a theoretical understanding of how
trans-generational and social trauma comes to bear on successful institutional, systemic, and programmatic
intervention at the nexus of social justice work, the law and public policy.

Of those institutions of government charged with the responsibility of enforcing these moral norms, we will explore
the particular role of the courts?international and certain domestic ones. In the area of human rights and
liberties, the United States has traditionally been a beacon of hope. And so, we will be particularly attentive to the
special role of the Supreme Court of the United States in giving meaning to the words of the Constitution and
laws that guarantee basic rights.

This course is open to Ford and non-Ford juniors and seniors only.

Policy Design, Strategy and Pr
In this seminar, students will confront major challenges in moving policy initiatives forward. The course will
focus on two important policy arenas: U.S. Unemployment Insurance (70+ years of failure to reform), and US-China
trade relations (evolving challenges). Drawing in depth from vital experiences on these topics, students will
learn about the panoply of efforts involved in designing and implementing policy, including interactions among the
clash of policy perspectives, the role of personal relationships, the importance of obstacles to coalition
building, and the impact of messaging and public opinion.

The course will be co-taught by an applied economist and a legislator centrally involved in the dynamics of
policymaking, enabling students to gain insights about the realities of policy-making, and the role of leadership
in complex policy arenas. Students will have opportunities to hone their written and oral presentation skills, and
to apply the tools developed in new contexts.

This class will explore U.S. policy on counterterrorism before and after the September 11, 2001 attacks through the
lens of NSC decision-making and some of the key personalities involved. It will first look at the NSC from a
historical context and identify its key roles and functions, before transitioning into an examination of terrorist
threats, and then the more specific aspects of NSC decisions and policy choices on counterterrorism. The course
will also involve guest speakers, writing assignments geared toward NSC style and format, and simulated NSC
meetings where students assume different interagency roles and examine potential courses of action on various
counterterrorism issues.

The objectives of the course include:

1. Learning key NSC functions, the organization's evolution since its creation in 1947, and how
   counterterrorism functions within it.

2. Identifying different terrorist threats the United States has confronted over the last three decades.

3. Evaluating the strengths and weaknesses of counterterrorism policy choices across different administrations.
4. Developing practical analytic, writing, and oral presentation skills relevant to national security career fields.

Higher Education Public Policy

This course will examine the higher education sector from several different angles, but with an emphasis placed on the economic issues. Topics include the benefits of higher education, government's interest in promoting it, and various policies that impact access, persistence, affordability, and accountability. Policies examined include financial aid, affirmative action, state and federal funding, regulation of the for-profit sector, and many others.

Combined with PubPol 611.

Cybersecurity for Future Leaders

Location: 1010 Dow Engineering Building (North Campus).

Co-taught with Dr. Carl Landwehr, Lead Research Scientist, Cyber Security Policy & Research Institute, George Washington University.

Future leaders will need to understand the science, technology, and human considerations behind cybersecurity well enough to make informed decisions when provided advice and options for action. Over the last decade cybersecurity issues have risen in prominence from a U.S. national security perspective, as well as from the perspective of individuals and organizations. There have been near daily reports regarding cyber operations launched by nation states, hacking groups, criminal organizations, and individuals against a variety of targets, using different tools and methods, and with different effects. Technology has accelerated the rate of cyber operations, enabling those intent on using cyber tools for a variety of malign purposes. The U.S. government has also attempted to reorganize and reorient towards this multi-dimensional threat, in addition to private industry, state and local governments, and academia but there are still a number of gaps and vulnerabilities that deserve technical and policy attention and solutions.

This class will examine the broad landscape of cybersecurity from both a technical and policy perspective. It will introduce fundamental concepts of computing and cyber security, including information theory, computability, cryptography, networking fundamentals, how vulnerabilities arise, and how attacks work. In addition, it will explore foundational ideas including definitions, cyber norms, and ethics; identify existing U.S. laws, authorities and governmental constructs; and frame classic security concepts like deterrence, attribution, offense, defense, and retaliation. The course will also involve guest speakers, short writing assignments designed to capture technical or policy insights, policy papers designed to explore alternative views on different cybersecurity topics, and simulated National Security Council policy meetings where students assume different interagency roles and examine potential courses of action.

The objectives of the course include:
1. Enhancing knowledge on technical and policy aspects of cybersecurity.
2. Sharpening critical thinking, executive briefing, and team collaboration skills.
3. Understanding real-world implications of cyber operations.
4. Identifying possible solutions or opportunities to address existing cybersecurity challenges.

Applied Learning Seminar
Instructors: Ann Lin and Stephanie Sanders

This is a required course open only to current Ford School BA students.

Course Objectives:
1. Students will explore their social identities, values and emotions about a public policy issue (gun control) and examine the factors that have contributed to their beliefs.
2. Students will gain an understanding of the ways their beliefs and emotions are embedded in social networks and shared values.
3. Students will learn to consciously employ effective communication (i.e. reflection, empathy, asking, and listening), as a tool for understanding public policy debates and advancing public policy solutions.
4. Students will practice using narratives, reframing, and dialogue to work across differences.

R for PubPol

This course is an introduction to programming in the R statistical language. R is a flexible, open-source statistics platform which has gained broad adoption in a variety of fields. Through interacting with R, RStudio, and elements of the ?Tidyverse? (a collection of R packages for data manipulation, analysis, and visualization), students will learn the fundamentals of working in R. By completing this class, students should have the baseline skills necessary to continue their self-study in R on topics suited to their own interests.

This course covers fundamentals of programming in R, object types and structure, import and use of packages for expanding R's capabilities, data management, and basic analysis. The course is graded credit/no credit (pass/fail), with weekly review ?tasks? in R. Students are not expected to have prior experience in R or other programming, but familiarity with basic concepts in statistics is recommended.

This is a required course open only to current Ford School BA students.
This 4-credit course will provide an introduction to the fundamentals of evaluation research design and methods as applied to public policies and programs. The course will cover the role of evaluation in the public policy process, and both process and summative evaluation research, including research designs for establishing causal inference between exposure to public policies/programs and outcomes. Students will gain skills in understanding and crafting research designs common in public policy evaluation, including randomized controlled trials, quasi-experimental designs and time series designs. Students will also gain skills in understanding/critiquing published public policy evaluation literature, measurement/data collection methods, and basic statistical methods for analyzing evaluation data. Class format will include lecture, discussion of case studies, and small group applied exercises.

This course will help build your research/analysis skills

This is a core course restricted to Ford School students only. Registration is by permission only.

The primary objective of this core course in the MPP curriculum is to equip students with the knowledge and skills needed for effective political analysis of public policy issues and decisions. The course covers conceptual and analytic frameworks for understanding political processes, institutions, stakeholders, contexts and policy decision making. In addition, the course builds written and verbal communication skills, emphasizing the ability to convey clear and concise political analyses in a variety of formats, including policy memos.

This section of 510 aims to help students better understand policy analysis and the political environment within a context of American domestic politics at the national level. By the end of the course, students will understand the political environment in which policy specialists operate: the participants who shape policy within particular domains; the ways in which they perceive problems and solutions; the information, interests, and ideologies likely to govern their actions; the strategies they use; and the institutional arrangements and processes that shape their behavior and constrain their decisions. A final but important purpose of the course is to build written and oral communication skills.

This is a core course restricted to Ford School students only. Registration is by permission only.

The primary objective of this core course in the MPP curriculum is to equip students with the knowledge and skills needed for effective political analysis of public policy issues and decisions. The course covers conceptual and analytic frameworks for understanding political processes, institutions, stakeholders, contexts and policy decision making. In addition, the course builds written and verbal communication skills, emphasizing the ability to convey clear and concise political analyses in a variety of formats, including policy memos.

This section of 510 focuses on political strategy and policy processes in comparative perspective. Students will learn how national and regional contexts shape governing institutions, political cultures, stakeholders and strategies, and will develop tools to inform and influence policymaking given these differences. Overall, the course trains students: a) to analyze critically and in-depth the political dimensions of pressing policy issues; b) to engage in issue advocacy from grassroots mobilization to lobbying across national contexts; c) to develop a nuanced understanding of different including opposing interests in the policy process; d) to understand the policymaking environments of countries in Europe, Asia, and Africa, in comparative perspective with the United States; e) to work in teams; and f) to improve written and communication skills.

This is a core course restricted to Ford School students only. Registration is by permission only.

In this section of 510, students will analyze the politics that affect foreign policy choices and the policies adopted by international organizations. We will examine the U.S. foreign policy process and compare it to that of other political systems. We also will analyze the politics of the United Nations and some of its key specialized agencies including the World Bank, Human Rights Council, and UN Environment Program. We will consider the dynamics of regional organizations such as the European Union and Association of Southeast Asian Nations. We will apply this...
In this ten-week course, students will learn to write for a public policy audience. Students will research a policy topic and will write about it in three separate documents (an op-ed and two memos), each of which will undergo extensive revision. Through workshops, class discussion, and instructor feedback, students will finish the course with a strong writing sample and greater confidence in policy writing norms and style.

This course teaches the norms of policy writing to 1st year policy students. Through small workshops, students will analyze approaches to different types of policy writing. They will produce a good deal of writing - and receive detailed criticism - in a relatively short time to facilitate their development.

511 Intro Policy Writing 0.50

This course teaches the norms of policy writing to 1st year policy students. Through small workshops, students will analyze approaches to different types of policy writing. They will produce a good deal of writing - and receive detailed criticism - in a relatively short time to facilitate their development.

521 MPA Writing Seminar 1.00

In this ten-week course, students will learn to write for a public policy audience. Students will research a policy topic and will write about it in three separate documents (an op-ed and two memos), each of which will undergo extensive revision. Through workshops, class discussion, and instructor feedback, students will finish the course with a strong writing sample and greater confidence in policy writing norms and style.

The class meets once a week and is open only to MPA students.

519 Sus Energy Sys 3.00 ADVISORY

This course coordinates a mini-course on algebra to prepare students for PUBPOL 513.
promoting long-term economic growth, monetary and fiscal policies in an open economy, deficits and debt, and stabilizing the economy, the relationship between inflation and unemployment, the role of government policy in major topics in macroeconomic policy. Examples of issues discussed include the role of fiscal and monetary policies in unemployment, inflation, and growth (b) understand how monetary policy and fiscal policy can be used to influence major policies and institutions that constrain and influence international trade and factor movements. Special attention is given to the WTO, to various elements of U.S. trade policy, and to the growing number of regional arrangements such as the European Union and NAFTA. Empirical evidence and applications of the theories are addressed, including their applicability for less developed and emerging economies. Although the major emphasis of the course is on the microeconomics of international transactions, a portion of the course will also put this into a macroeconomic context. Topics here include the role and determination of exchange rates in the world economy, as well as how international movements of financial capital interact with trade and exchange rates in determining the balance of trade and the vulnerability of a country's macroeconomic variables to events abroad. This course presumes a prior knowledge of intermediate economics. This course teaches fundamental concepts in microeconomics that are essential to the study and practice of public policy. Our focus is on real-world applications and answering the question: ?Why do people who care about public policy need to know microeconomics?? The primary learning objective of this course is for students to become comfortable applying economic models to real world policy issues. Careful attention will be paid to understanding key model assumptions and limitations, identifying and manipulating model parameters, adapting models to address novel situations, and using models to evaluate and compare policy options. This course teaches students the basic tools of macroeconomics and how to apply them to real world economic policy. The goals of the course are for students to (a) understand how to evaluate macroeconomic conditions such as unemployment, inflation, and growth (b) understand how monetary policy and fiscal policy can be used to influence macroeconomic conditions (c) understand media accounts of macroeconomic events. The course will cover a broad range of topics in macroeconomic policy. Examples of issues discussed include the role of fiscal and monetary policies in stabilizing the economy, the relationship between inflation and unemployment, the role of government policy in promoting long-term economic growth, monetary and fiscal policies in an open economy, deficits and debt, and
European Monetary Union. The course is structured around the tools (models) of macroeconomics, using primarily graphs, and occasionally equations. Examples are taken from current and recent real-world macroeconomics events and conditions. Prerequisite: PUBPOL 555 (Microeconomics) or permission of instructor.

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<td>Data Visualization</td>
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<td>578</td>
<td>Strategic Consulting</td>
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<td>Data Visualization</td>
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Combined w/ PubPol 457.

This course will provide students with fundamental principles and practical experience in presenting data in a visual form for communication and analysis. The class will collect data, management of data for visualization, creating a workflow for visualization, collaboration with designers and coworkers, and examples of visualization which communicates effectively. For students of Public Policy, mastering the skills of persuasive communication with empirical evidence is essential, and visual communication can be a powerful tool in that skillset.

This course is comprised of four core modules: principles/fundamentals of design and visualization and review of visualization programming in Excel, STATA, and R/ggplot. In each of those modules, students will learn to translate quantitative data (or coded qualitative data) into visualizations for examining patterns which reveal insights about the world. At the end of this class, students should have a baseline understanding of visualization for use in their own work and development of their own skills. The course is graded credit/no credit (pass/fail), with a course-long data visualization portfolio project. Students are not expected to have experience or prior knowledge of software or principles; but a baseline understanding of statistical concepts is recommended.

Students must also register for PubPol 778: Project Skills Workshop (1 credit).

This course seeks to make students sensitive to and articulate about the ways in which moral and political values come into play in the American policy process, particularly as they affect non-elected public officials who work in a world shaped by politics. Topics covered include the tensions between ethics and politics, an introduction to various moral theories that figure in contemporary policy debates, a consideration of the principal values that animate American politics, and issues and dilemmas in professional ethics. The course addresses issues that affect international as well as U.S. policy and politics.

This is a core course restricted to Ford School students only.
animate American politics, and issues and dilemmas in professional ethics. The course addresses issues that affect international as well as U.S. policy and politics.

### Performance Management
**586 Performance Mgmt**
- **CR:** 1.50
- **DAYS:** TTH
- **TIME:** 10:110AM - 12:30PM
- **LOCATION:** WEILL
- **INSTRUCTOR:** Tompkins-Stange, Squires

**Performance Management**
The main objectives of this course are to enhance your ability to think analytically and write clearly about managerial challenges. This includes improving your ability to recognize and define these challenges, to evaluate common approaches to addressing these challenges, and propose your own solutions to these challenges.

**587 Public Management**
- **CR:** 1.50
- **DAYS:** TH
- **TIME:** 4:17PM - 6:10PM
- **LOCATION:** WEILL
- **INSTRUCTOR:** Flanagan

In today's complex and dynamic world, leadership is in demand at all levels of every organization. Whether you are a senior leader, middle manager, or individual performer, there are leadership skills you can develop to maximize your influence and impact. In this course, we will build those skills in the context of nonprofit and other mission-driven organizations: from mastering and motivating yourself, to organizing and empowering others; to building distinctive workplaces where people feel trusted, supported, and challenged.

**Org Causes of Tech Failures**
Gas plants explode, planes crash, and nuclear power plants suffer meltdowns. Human beings make mistakes and complex technologies fail in unexpected ways. Often unrecognized in accidents and disasters are the organizational features that made these disasters possible or likely. This course examines the organizational features, system defects, and bureaucratic dysfunctions that contribute to large technology failures. Organizations affect the occurrence of accidents at every level. Internal characteristics like poor communication, loose coupling, and principal-agent problems lead to accidents. The course will examine the higher education sector from various angles, but with an emphasis placed on the economic issues. Topics include the benefits of higher education, government's interest in promoting it, and various policies that impact access, persistence, affordability, and accountability. Policies examined include federal financial aid, affirmative action, state and federal funding, regulation of the for-profit sector, and many others.

**600 Directed Reading**
- **CR:** 0.50-3.00
- **IND:** ADVISORY

**611 Higher Ed & Pub Pol**
- **CR:** 3.00

This course will examine the higher education sector from several different angles, but with an emphasis placed on the economic issues. Topics include the benefits of higher education, government's interest in promoting it, and various policies that impact access, persistence, affordability, and accountability. Policies examined include federal financial aid, affirmative action, state and federal funding, regulation of the for-profit sector, and many others.

**626 Hist & Futr Detroit**
- **CR:** 1.00
- **DAYS:** TTH
- **TIME:** 11:30:15PM - 1:20PM
- **LOCATION:** WEILL
- **INSTRUCTOR:** Farley

The class will be held the following days: 9/17, 9/19, 9/21 Detroit tour, 9/24, 9/26.

Detroit was the nation's most important city in the Twentieth Century because of the auto industry, the emergence of the blue-collar middle class and development of the New Deal. Now it is the most negatively stereotyped city in the nation. The course describes changes in Detroit and emphasizes policy developments in Rust Belt metropolises as they cope with the restructuring of employment.

**639 Quant Prgm Eval**
- **CR:** 3.00

This introduction to program evaluation and multiple regression analysis trains students to critically consume empirical studies and conduct their own empirical research. We use education data and examples to teach course concepts, including class size, education finance and the returns to education in the labor market.

This is a core course restricted to Ford School students only.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Some states, including California and Minnesota, reduce toxic airborne emissions and promote better health outcomes for residents by measuring the cumulative impact of hazardous air pollutants. In this class, students will determine why Michigan has failed to adopt such a cumulative impact approach. Students will incorporate ideas from environmental studies, law, health sciences, design, social work, and other fields to develop innovative solutions.

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

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712 Causal Infer Ed K-12 3.00 ADVISORY
25181 P RW SEM 001 MW 10-1120AM 1210 WEILL Jacob

This course focuses on rigorous evaluation of policies and interventions intended to support children's early learning and success in K-12. Evaluations will be discussed in the context of the current and historical landscape. Specific topics will include theories across developmental psychology and economics, school accountability, teacher-focused policies, and digital learning.

717 Social Activism 3.00 ADVISORY
19125 P RW SEM 001 TH 4-650PM 1230 WEILL Henry

How are the inherent and intersecting relations of power including inherent structures of dominance related to the experience of violence, oppression and resistance textured into the context of politics and policy making? This course investigates how multifaceted historical relationships of traumatic experience including Colonization, Slavery and Apartheid can be related to the ways in which we think about policy. This course takes a multidisciplinary approach to how the production of culture, ecology, psychology, law, economics and politics frames the sociology and historiography of the policymaking context. This course provides the opportunity for student's to improve their analytical abilities. Whilst the material content used in this course will have a global focus local issues will also be considered.

736 Poverty&Inequality 3.00 ADVISORY
30827 P RW SEM 001 MW 230-350PM 1230 WEILL Pilkauskas

This course examines the nature, extent and causes of poverty and inequality in the US relying on a multidisciplinary literature from sociology, political science, economics, and psychology. The large number of anti-poverty programs that have been tried in the last 30 years underscores the extent of disagreement about the causes of poverty, the situation of the poor, and the role of the government in encouraging income redistribution and social change. This course will explore the problem of poverty, theories of poverty and the implications that these theories have for public policies targeting poverty. We will study issues related to topics such as housing and neighborhoods, structural economic changes like wages and inequality, families and social norms, and mass incarceration to consider how these issues generate and reproduce poverty, lack of opportunity, and inequality.

744 Econ of Publ Sect 3.00 ADVISORY
25206 P RW SEM 001 MW 4-520PM 1220 WEILL Stevenson

This is a course on how economists think about government revenue and government expenditures - how governments raise and spend public money. Public Finance is a subfield of microeconomics. In the course, we will begin by delving more deeply into rationales for government intervention in the market (introduced in Micro A/B), including public goods, externalities, and equity. We will then use the tools of economic analysis and microeconomic theory to analyze a number of important public policy issues, such as public health insurance, social security, and anti-poverty programs. The second part of the course will cover tax policy, and we will explore how the burden of taxation is distributed, how taxes affect the economic behavior of individuals and firms, and options to reform the tax system. The course will cover the theory of public finance in depth. The ultimate aim will always be to apply the concepts to real world policies and programs. Toward that end, we will spend substantial time both inside and outside of the classroom applying the concepts and reviewing existing empirical evidence. The course focuses on the US, but we will discuss comparisons with other countries from time to time.

750 Special Topics 1.50-3.00 ADVISORY
24159 P RW LEC 002 F 9-1150AM 1220 WEILL Vieux

Human Rights

This course will explore the legal enforcement of those human rights that are fundamental and are the birthright of all human beings. We will review the international political and legal framework established over the past fifty years to protect human rights. We will home in on how effectively those universally-accepted legal norms are enforced. Conventional legal wisdom holds that where there is a right, there is a remedy. We will explore whether this is, indeed, true in the international human rights context. Specifically, the central inquiry of this course is what needs to be done to give legal effect to the moral norms that embody human rights and fundamental freedoms?

Of those institutions of government charged with the responsibility of enforcing these moral norms, we will explore the particular role of the courts?international and certain domestic ones. In the area of human rights and liberties, the United States has traditionally been a beacon of hope. And so, we will be particularly attentive to the special role of the Supreme Court of the United States in giving meaning to the words of the Constitution and laws that guarantee basic rights.

31263 P RW LEC 003 T 10-1120AM 1110 WEILL All

NSC & Counterterrorism

In the immediate aftermath of the terrorist attacks on September 11, 2001, counterterrorism quickly became the most important national priority for the United States and dominated the security landscape for the rest of the decade.
The objectives of the course include:

1. Learning key NSC functions, the organization's evolution since its creation in 1947, and how counterterrorism functions within it.
2. Identifying different terrorist threats the United States has confronted over the last three decades.
3. Evaluating the strengths and weaknesses of counterterrorism policy choices across different administrations.
4. Developing practical analytic, writing, and oral presentation skills relevant to national security career fields.

31036 P RW LEC 004 TTH 1-220PM 1220 WEILL Silva
Gender, Race, Employment Pol
More than 50 years after the passage of the Civil Rights Act, significant gender and ethno-racial inequality in the labor market remains. Why? This course relies on a multidisciplinary literature from sociology, economics, psychology, and socio-legal studies to examine ethno-racial and gender inequality in the labor market. We will first review and evaluate major explanations of inequality in the labor market, including employer discrimination, human capital differences, sexual harassment, occupational sex segregation, mass incarceration, inflexible workplaces, and segregated social networks. Then, we will discuss public policies and organizational efforts that seek to directly or indirectly ameliorate ethno-racial and/or gender inequality, such as paid family leave, “ban the box,” unconscious bias and/or gender bias training, and increases to the minimum wage.

31259 P RW LEC 005 TTH 230-350PM 1220 WEILL Collins, Levin
Policy Design, Strategy and Pr
In this seminar, students will confront major challenges in moving policy initiatives forward. The course will focus on two important policy arenas: U.S. Unemployment Insurance (70+ years of failure to reform), and US-China trade relations (evolving challenges). Drawing in depth from vital experiences on these topics, students will learn about the panoply of efforts involved in designing and implementing policy, including interactions among the clash of policy perspectives, the role of personal relationships, the importance of obstacles to coalition building, and the impact of messaging and public opinion.

The course will be co-taught by an applied economist and a legislator centrally involved in the dynamics of policymaking, enabling students to gain insights about the realities of policy-making, and the role of leadership in complex policy arenas. Students will have opportunities to hone their written and oral presentation skills, and to apply the tools developed in new contexts.

32645 P RW LEC 006 M 4-7PM 1010 DOW Ali, Landwehr
Cybersecurity for Future Leaders
Location: 1010 Dow Engineering Building (North Campus).
Co-taught with Dr. Carl Landwehr, Lead Research Scientist, Cyber Security Policy & Research Institute, George Washington University.

Future leaders will need to understand the science, technology, and human considerations behind cybersecurity well enough to make informed decisions when provided advice and options for action. Over the last decade cybersecurity issues have risen in prominence from a U.S. national security perspective, as well as from the perspective of individuals and organizations. There have been near daily reports regarding cyber operations launched by nation states, hacking groups, criminal organizations, and individuals against a variety of targets, using different tools and methods, and with different effects. Technology has accelerated the rate of cyber operations, enabling those intent on using cyber tools for a variety of malign purposes. The U.S. government has also attempted to reorganize and reorient towards this multi-dimensional threat, in addition to private industry, state and local governments, and academia?but there are still a number of gaps and vulnerabilities that deserve technical and policy attention and solutions.

This class will examine the broad landscape of cybersecurity from both a technical and policy perspective. It will introduce fundamental concepts of computing and cyber security, including information theory, computability, cryptography, networking fundamentals, how vulnerabilities arise, and how attacks work. In addition, it will explore foundational ideas including definitions, cyber norms, and ethics; identify existing U.S. laws, authorities and governmental constructs; and frame classic security concepts like deterrence, attribution, offense, defense, and retaliation. The course will also involve guest speakers, short writing assignments designed to capture technical or policy insights, policy papers designed to explore alternative views on different cybersecurity topics, and simulated National Security Council policy meetings where students assume different interagency roles and examine potential courses of action.

The objectives of the course include:

1. Understanding how the National Security Council (NSC) drives U.S. policy on counterterrorism, with different approaches adopted by different administrations.
2. Exploring the lens of NSC decision-making and some of the key personalities involved.
3. Learning key NSC functions, the organization's evolution since its creation in 1947, and how counterterrorism functions within it.
4. Identifying different terrorist threats the United States has confronted over the last three decades.
5. Evaluating the strengths and weaknesses of counterterrorism policy choices across different administrations.
6. Developing practical analytic, writing, and oral presentation skills relevant to national security career fields.
1. Enhancing knowledge on technical and policy aspects of cybersecurity.
2. Sharpening critical thinking, executive briefing, and team collaboration skills.
3. Understanding real-world implications of cyber operations.

4. Identifying possible solutions or opportunities to address existing cybersecurity challenges.

778 Proj Skills Wkshp 1.00
20257 P RW SEM 001 W 1-220PM 1230 WEILL Gerber
This is a professional skills workshop that will be required for students enrolled in the Applied Policy Seminar (APS, PP578) and open to other MPP/ Master's student. To be offered each semester, concurrent with the APS.

810 Policy Research Sem 1.00 ADVISORY
16610 P RW SEM 001 F 1-220PM 3240 WEILL Leahy
This course is open to PhD students in the joint program with Public Policy only.

830 Immersion Research 1.00
21293 P RW SEM 001 F 1-220PM ARR Leahy
This course is for third-year Ford School PhD students only.

990 Diss-Precand 1.00-8.00 ADVISORY
995 Diss-Cand 8.00 ENFORCED
### Rackham Graduate School

#### Chemical Biology (CHEMBIO)

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#### CHEMBIO 511 lectures will meet together with CHEMBIO 501 in 1250USB on M, W, F 8-9AM.

Registering for this lecture section will auto-enroll a discussion section (CHEMBIO 511 002) on F 11-12pm in 1567 North University Bldg

Register for section 001 for a full semester rotation.

Register for section 002 for a September-October half semester rotation.

Register for section 003 for a November-December half semester rotation.

This course is available to Chemical Biology PhD students only.

This course is intended for Chemical Biology MS students only.

This course is available to Chemical Biology PhD students only.

This course is intended for PhD students only.

This course is available to Chemical Biology MS students only.

This course is intended for Chemical Biology MS students only.

### Rackham Graduate School (RACKHAM)

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Contact ChemicalBiology@umich.edu for registration inquiries after July 15th.
Ross School of Business

FRESHMEN MAY NOT ELECT ANY BUSINESS COURSES.  500 LEVEL COURSES OR ABOVE REQUIRE GRADUATE STANDING.

School of Business Administration

Accounting (ACC)

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Section 001 in 2019 will hold class from 4:30pm to 6pm on the following dates:
- Monday, October 28th
- Wednesday, October 30th
- Monday, November 4th
- Wednesday, November 6th
- Monday, November 11th
- Wednesday, November 13th
- Monday, November 18th
- Wednesday, November 20th

Section 002 in 2019 will hold class from 6:30pm - 9:30pm on the following dates:
- Tuesday, October 29th
- Tuesday, November 5th
- Tuesday, November 12th
- Tuesday, November 19th

Section 451 in 2019 will hold class from 4:30pm to 6pm on the following dates:
- Monday, October 28th
- Wednesday, October 30th
Section 452 in 2019 will hold class from 6:30pm - 9:30pm on the following dates:
- Tuesday, October 29th
- Tuesday, November 5th

Section 002 meets with Section 001 in BLA1580. Exact dates TBA. This course takes a trip to Washington, DC. 2018
DC Dates: August 27-29 (8am-6pm)

Section 002 meets with Section 001 in BLA1580. Exact dates TBA. This course takes a trip to Washington, DC. 2018
DC Dates: August 27-29 (8am-6pm)

Business Administration (BA)

100 Intro to Ross
25698 P R REC 001 T 8:30-10AM B1570 BUS Killaly
26257 P R REC 003 W 8:30-10AM B0570 BUS Lafontaine
26258 P R REC 004 W 10:11-30AM B0570 BUS Lafontaine
29030 P R REC 005 TH 8:30-10AM B1570 BUS Wooten
29031 P R REC 006 TH 10-1130AM B1570 BUS Wooten
29032 P R REC 007 TH 4-5PM B0570 BUS Wooten
29033 P R REC 008 TH 5:30-7PM B0570 BUS Wooten

101 Development Seminar
22595 PI SEM 001 F 11-10AM R2240 BUS Yoon
27490 P SEM 003 F 1-230PM R2240 BUS Todd

102 Business Foundations
30176 P REC 001 F 6-8PM ARR

102 Business Foundations
P REC 001 TH 8:30-1PM B1560 BUS Wooten
P REC 001 F 8:30-4PM B1560 BUS Wooten
P REC 001 W 5:30-7:30PM R0210 BUS Wooten

102 Business Foundations
36147 P REC 002 W 6-8PM ARR Wooten

102 Business Foundations
P REC 002 TH 8:30-1PM B1570 BUS Wooten
P REC 002 F 8-10AM B1570 BUS Wooten
P REC 002 T 5:30-7:30PM R0240 BUS Wooten

200 Bus&Leaders:Pos Diff
22912 P R DIS 001 MW 1-230PM B2560 BUS Tasluk
22914 P R DIS 003 MW 230-4PM B2560 BUS Shakespeare
23890 P R DIS 004 MW 230-4PM B0420 BUS Mueller
24245 P R DIS 005 MW 4-5PM B2560 BUS Shakespeare
22916 P R DIS 006 W 4-5PM B0420 BUS Mueller
23892 P R DIS 007 TTH 8:30-10AM B0420 BUS Berdich
22918 P R DIS 008 TTH 10-1130AM B0420 BUS Yoon
23894 P R DIS 009 TTH 1130-1PM B0420 BUS Yoon
23893 | PR DIS 010 | TTH | 11:30-1:00 PM | R2310 BUS | Nyshadham
22921 | PR DIS 011 | TTH | 1:20-2:30 PM | R0420 BUS | Coolican
23896 | PR DIS 012 | TTH | 2:30-4:00 PM | R0420 BUS | Yoon
23895 | PR DIS 013 | TTH | 4:30-5:40 PM | R0420 BUS | Alexander
24964 | PR DIS 015 | TTH | 10:10-11:30 AM | R2310 BUS | Eckhoff Onofre
22665 | PR DIS 016 | TTH | 1:20-2:30 PM | R2310 BUS | Nyshadham

22665 | ABIS | P | REC 001 | ARR | ARR | 1.00 | Shark
325 | ABIS | P | REC 001 | ARR | ARR | 1.00 | Shark
399 | Indep Study Project | T | IND | ARR | ARR | 1.00-3.00

445 | Base of Pyramid | P | RW REC 001 | M | 6:30-9:30 PM | B3580 BUS | London | 3.00 | ADVISORY | 41.00
445 | Base of Pyramid | P | RW REC 001 | TH | 6:30-9:30 PM | B3580 BUS | 3.00 | ADVISORY | 41.00

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

445 | Base of Pyramid | P | RW REC 002 | W | 4:30-7:30 PM | B3580 BUS | 3.00 | ADVISORY | 41.00
445 | Base of Pyramid | P | RW REC 002 | F | 9-12 PM | ARR | 3.00 | ADVISORY | 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

27033 | P | RW REC 321 | M | 6:30-9:30 PM | ARR | London | 3.00 | ADVISORY | 41.00

BE 518 is cross-listed with HMP 630, PHRMACOL 620, BIOMEDE 523, & ENGR 523. This class meets on four Tuesday evenings from 5 pm - 7:00 pm in addition to Monday/Wednesday mornings. The Tuesday meeting dates for 2019 are 9/10, 9/24, 10/1, and 10/8.

525 | ABIS | P | REC 001 | T | 1-2 PM | R1210 BUS | 1.00 | Shank
525 | ABIS | P | REC 001 | W | 1-2 PM | R1220 BUS | 1.00

612 | Bus Strat Base Pyrmd | P | RW REC 001 | T | 12:40-2:10 PM | R2240 BUS | London | 2.25 | 51.00
612 | Bus Strat Base Pyrmd | P | RW REC 001 | F | 9-12 PM | R2220 BUS | 2.25 | 51.00

2019: BA 612.001 meets on the following Fridays (9 am - 12 pm) in addition to Tuesday and Thursday afternoons in Fall B: 11/15, 11/22, 12/6.

656 | LBLE | 3.00
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BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

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BCOM 350 is reserved for BBA students only. It is highly recommended that students keep the TBA time slot open for RIS-related activities and team-based work.

350  
17845  
Prof Communctn Strat  
P R  REC 011  W  
1-230PM  
R2320 BUS  
1.50  
Gallifianakis  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

350  
17846  
Prof Communctn Strat  
P R  REC 012  W  
1130-1PM  
R2320 BUS  
1.50  
Gallifianakis  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

350  
26259  
Prof Communctn Strat  
P R  REC 013  W  
1-230PM  
R2310 BUS  
1.50  
Kotzian  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only.

350  
17847  
Prof Communctn Strat  
P R  REC 015  M  
1130-1PM  
R2310 BUS  
1.50  
Kotzian  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

350  
24935  
Prof Communctn Strat  
P R  REC 016  W  
1-230PM  
R2310 BUS  
1.50  
Morrow  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

350  
20997  
Prof Communctn Strat  
P R  REC 017  M  
230-4PM  
R2320 BUS  
1.50  
Gallifianakis  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only.

350  
21387  
Prof Communctn Strat  
P R  REC 018  W  
4-530PM  
B3570 BUS  
1.50  
Crawford  
1.50  
ADVISORY, ENFORCED  
25.00  

BCOM 350 is reserved for BBA students only. Class will not meet the Wednesday prior to Thanksgiving.

350  
22262  
Prof Communctn Strat  
P R  REC 019  M  
4-530PM  
R2320 BUS  
1.50  
Schantz  
1.50  
ADVISORY, ENFORCED  
25.00  

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<td>39 Independent Study</td>
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<td>Positive Communicat</td>
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Business and the Public Policy
BL 688.001 is an off-site course taught in Washington, D.C. The course requires participation in Washington D.C., followed by a group project and a public policy paper due in early Fall. Only selected students receive permission to register. For more information, contact rossgradacadadvising@umich.edu.

30151 PD SEM 002 ARR ARR Kress
22320 PD SEM 451 ARR ARR Kress
30152 PD SEM 452 ARR ARR Kress

Business and the Public Policy
BL 688.451 is an off-site course taught in Washington, D.C. The course requires participation in Washington D.C., followed by a group project and a public policy paper due in early Fall. Only selected students receive permission to register. For more information, contact rossgradacadadvising@umich.edu.

28511 PD REC 620 ARR ARR Adhvaryu
34315 PD REC 622 ARR ARR Arvai, Wainright

Business and the Public Policy
BL 688.001 is an off-site course taught in Washington, D.C. The course requires participation in Washington D.C., followed by a group project and a public policy paper due in early Fall. Only selected students receive permission to register. For more information, contact rossgradacadadvising@umich.edu.

750 Independent Study 1.00-3.00
30151 PD SEM 002 ARR ARR Kress

Executive Master of Business Administration (EMBA)
601 Eval Fin Perfmc 2.00 ADVISORY
21901 P REC 001 SA 8-10PM ARR Wright
21902 P REC 001 ARR ARR

602 Cap Allocat&Valuatio 2.50 ADVISORY
21903 P REC 001 ARR ARR Narayanan
21904 P REC 001 ARR ARR Narayanan

603 Bus Analy & Stats 2.00 ADVISORY
21905 P REC 001 TH 3-6PM ARR Ahn

604 Econ of Business 2.00 ADVISORY
21907 P REC 001 ARR ARR Shwayder

621 Competing on Value 2.00 ADVISORY
21908 P REC 001 ARR ARR Manchanda
21552 P REC 001 ARR ARR Manchanda

634 Negotiations 1.50 ADVISORY
23609 P REC 001 TH 7-1PM ARR Ashford
20518 P REC 001 T 7-6PM ARR
20519 P REC 001 T 1-1AM ARR
20520 P REC 001 TH 1-4PM ARR

This course is reserved for Executive MBA students.
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23610   P   REC 002  ARR ARR Ashford  
This course is reserved for Executive MBA students.

23611   P   REC 812  ARR ARR Ashford  
This course is reserved for Executive MBA students.

640  Multidisc Act Proj 6.00 ADVISORY  

640  Multidisc Act Proj 6.00 ADVISORY  

EMBA 640.001 is reserved for students in the Executive MBA program.  

640  Multidisc Act Proj 6.00 ADVISORY  
EMBA 640.812 meets in Los Angeles, CA, and is reserved for students in the Executive MBA program.

651  Positive Leadership 1.50  

652  Strategic HR Plan 1.50  

653  Strategic Leaders 1.50  

654  Strat Mkt Digital 1.50  

Entrepreneurial Studies (ES)  

212  Entrep Bus Basics 3.00  

24460  PIRW REC 001  F   9-12PM R2230 BUS Svaan  
UC 270.013 meets with ES 212.001.  
This class meets together with UC 270.014.

23731  P RW REC 002  F   1230-330PM R2230 BUS Svaan  

25758  PIRW REC 003  TTH  1-230PM R0230 BUS Johnson  

250  IntrEntrepreneurship 3.00  

24250  P RW REC 311  MW  1130-1PM B1580 BUS Menon  
Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

329  Finan Resrch Comcial 3.00  

18454  P RW REC 001  W  7-10PM ARR Brophy  
ES 329 is cross-listed with FIN 329 and meets with FIN/ES 629. This class meets in the BLAU colloquium (5th floor of BLAU) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.  

395  Entrepreneurial Mgt 3.00 ADVISORY  

399  Indep Study Project 1.00-3.00 ADVISORY  

427  Family Business 1.50  

23808  P RW REC 001  M  630-930PM R1230 BUS Middleton  
ES 427 meets with ES 827.

440  Healthy Business 1.50  

32246  PIRW REC 001  TTH  230-4PM B3560 BUS Thornhill  

32247  PIRW REC 321  TTH  230-4PM B3560 BUS Thornhill  

444  Finance for Soc Good 3.00  

24938  P RW REC 001  MW  230-4PM B3580 BUS Gordon  

444  Finance for Soc Good 3.00  

2019: ES 444 meets with ES 644 on Tuesdays in Fall B from 6:30-9 pm in BLAU1570.

516  Entrtpshp Via Acqsts 1.50  

16464  PIRW REC 001  M  7-10PM R0240 BUS Hiemstra  

16465  PIRW REC 451  M  7-10PM R0240 BUS Hiemstra  

605  New Prod Innov 2.25 ADVISORY  

32404  P RW REC 001  TTH  1020-1240PM B3580 BUS Siriram  

2019: ES 444 meets with ES 644 on Tuesdays in Fall B from 6:30-9 pm in BLAU1570.
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

602 Healthcare Startups 2.25
32927 P RW REC 001 MW 1020-1240PM B2560 BUS Johnson

623 Venture Capital Fin 2.25
16466 PIRW REC 001 TTH 7-9:20PM R0220 BUS Brophy
ES 623.001 is cross-listed with FIN 623 and meets with ES/FIN 623.451.
16474 PIRW REC 451 TTH 7-9:20PM R0220 BUS Brophy
ES 623.451 is cross-listed with FIN 623 and meets with ES/FIN 623.001.

627 Family Business 1.50
17183 P RW REC 001 M 630-930PM R1230 BUS Middleton
ES 627.001 meets with ES 627.451.
17184 P RW REC 451 M 630-930PM R1230 BUS Middleton
ES 627.451 meets with ES 627.001.

629 Finan Resrch Comcial 3.00 ADVISORY
17221 PIRW REC 001 W 7-10PM ARR Brophy
ES 629 is cross-listed with FIN 629 and meets with FIN/ES 329. This class meets in the BLAU colloquium (5th floor of BLAU) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.
17563 PIRW REC 451 W 7-10PM ARR Brophy
ES 629.451 is cross-listed with FIN 629 and meets with FIN/ES 329. This class meets in the BLAU colloquium (5th floor of BLAU) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.

750 Indep Study Project 1.00-3.00 ADVISORY

Finance (FIN)

300 Financial Mgt 3.00 ADVISORY 63.00
24940 PIRW REC 001 TTH 830-10AM R1210 BUS Lee
FIN 300 is reserved for BBA juniors and seniors only.
10113 PIRW REC 002 TTH 1130-1PM R1220 BUS Lee
FIN 300 is reserved for BBA juniors and seniors only.
10114 PIRW REC 003 TTH 1-230PM R1220 BUS Lee
FIN 300 is reserved for BBA juniors and seniors only.

20166 P RW REC 001 T 630-9PM B1570 BUS Gordon
Section 001 meets with Section 451.

21655 AIR LEC 001 MW 10-11AM R1100 BUS Lei
STUDENTS ARE AUTO-ENROLLED IN LECTURE WHEN THEY ELECT A DISCUSSION.

For faculty answers to common questions on enrollment, please read https://leiq.bus.umich.edu/docs/Fin302_Enrollment_FAQ.pdf.
released on August 14 (2018) to non-Business students of sophomore standing (25+ CTP) and above. In the meantime, please add yourself to the wait list of Section 007 if one has generated.

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This section of FIN 302 is reserved for non-Business students of sophomore standing and above.

FIN 317 is reserved for BBA Juniors and Seniors with some seats reserved exclusively for Business Minor students.

Seats in this section are reserved exclusively for Minor in Business students. If you are not a Minor in Business student, please enroll in (or add yourself to the waitlist of) the section this class is combined with.

FIN 335 is cross-listed with ACC 335, meets with ACC/FIN 725.

This class runs parallel with FIN 612, and as such, will meet on October 15th.

Seats in this section are reserved exclusively for Master of Management students.

This class runs parallel with FIN 612, and as such, will meet on October 15th.

This class runs parallel with FIN 612, and as such, will meet on October 15th.

This class runs parallel with FIN 612, and as such, will meet on October 15th.

This class will not be meeting Monday, September 9th. A make-up class will be offered on Saturday, September 13th from 10:20AM-12:40PM.

This section is reserved for students in the Quantitative Finance and Risk Management program.

This section is reserved for students in the Quantitative Finance and Risk Management program.

This section is reserved for students in the Quantitative Finance and Risk Management program.
16476 P RW REC 001 MW 1240-210PM R0230 BUS Pasquariello
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

16477 P RW REC 0451 MW 1240-210PM R0230 BUS Pasquariello
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

16455 PIRW REC 001 TTH 1020-1240PM B0560 BUS Whited
FIN 623.001 is cross-listed with ES 623 and meets with ES/FIN 623.451.

16456 PIR REC 002 TTH 210-430PM B0560 BUS Whited
FIN 623.451 is cross-listed with ES 623 and meets with ES/FIN 623.001.

17020 P RW REC 005 MW 230-450PM R2240 BUS Kaul
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

17436 P RW REC 451 MW 1240-210PM R0230 BUS Pasquariello
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

20165 P RW REC 005 MW 230-450PM R2240 BUS Kaul
Section 001 meets with Section 451. This section is reserved exclusively for Evening MBA students.

16478 P RW REC 001 TTH 630-850PM R0220 BUS Brophy
FIN 629 is cross-listed with ES 629 and meets with FIN/ES 329. This class meets in the BLAU colloquium (5th floor of BLAU) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.

20592 PI SEM 001 ARR Dittmar
FIN 725 is cross-listed with ACC 725, meets with ACC/FIN 335.

19608 PIRW SEM 001 T 7-10PM R2320 BUS Dittmar, Rajan
The exact meeting pattern for FIN 855 is TBD.

21634 PIR REC 001 M 7-10PM R2320 BUS Rajan
FIN 855 Inv Dec Symmetr Inf 3.00 ADVISORY

34730 P RW SEM 001 W 630-930PM ARR Pasquariello
This class will be meeting in B2585.

850 Special Research I IND + ARR ARR
FIN 850 is cross-listed with ES 850 and meets with ES/FIN 329. This class meets in the BLAU colloquium (5th floor of BLAU) from 7-10pm in Fall A and from 6:30-9:30pm in Fall B.

300 Marketing Mgmt I 3.00 80.00
This section of MKT 300 is reserved exclusively for BBA juniors and seniors.

302 Marketing Management 3.00 130.00
Section 001 meets with Section 311.
Section 002 meets with Section 312.
Section 003 meets with Section 313.
Section 001 meets with Section 311. Seats in Section 311 are reserved exclusively for Minor in Business students.
| CR        | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | SEATS                | DAYS | TIME     | CODE | CMP | SEC | DAYS | TIME     | LOCATION   | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTRUCTOR          | LOCATION   | INSTRUCTOR | CR | PREREQ                      | LAB FEE | INSTR
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**Management and Organizations (MO)**

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**Leading People & Orgn**

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**Bargain&Inf Skills**

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<td>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 BCOM 510 and both can be taken in either order.</td>
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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 BCOM 510 and both can be taken in either order.

17443 PIRW REC 003 TTH 1020-1240PM B3580 BUS Kopelman
Section 003 meets with Section 451. 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 BCOM 510 and both can be taken 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 BCOM 510 and both can be taken in either order.

20056 P RW REC 005 MW 1020-1240PM B3580 BUS Morgan

17444 PIRW REC 451 TTH 1020-1240PM B3580 BUS Kopelman
Section 003 meets with Section 451. This section is reserved exclusively for Evening MBA students. 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 BCOM 510 and both can be taken in either order.

23233 PIR REC 001 TTH 1020-1240PM R2210 BUS Caproni
This course is reserved for students in the Master of Management program.

603 Navigating Change 2.25
32844 PIRW REC 001 TTH 8-1020AM B0570 BUS Caproni
32845 PIRW REC 451 TTH 8-1020AM B0570 BUS Caproni

617 Creat&Dev Perf Team 1.50
19623 P RW REC 001 F 830-6PM R0320 BUS Caproni
19724 P RW REC 451 F 830-6PM R0320 BUS Caproni

MO 617.001 meets with MO 617.451.
2018 Dates: 11/2, 11/9, 8:30am-6pm; 12/7, 8:30am-1pm

640 Healthy Business 1.50

750 Indep Study Project 1.00-3.00 ADVISORY
10106 PIRW REC 001 TTH 1240-210PM B3560 BUS Thornhill
10107 PIRW REC 451 TTH 1240-210PM ARR Thornhill

899 Doctoral Seminar
32893 PIRW REC 001 W 3-6PM R4020 BUS Baker
Field Research
32766 PI SEM 002 M 10-1PM ARR Mayer

900 Special Research 1.00-6.00 ADVISORY
990 Diss-Precand 1.00-8.00 ADVISORY
995 Diss-Cand 8.00 ENFORCED

Strategy (STRATEGY)

302 Business Strategy 3.00 ADVISORY 85.00
26555 PIRW REC 001 TTH 1-230PM B1580 BUS Nagarajan
Section 311 meets with Section 001.
26556 PIRW REC 002 TTH 1130-1PM B1580 BUS Nagarajan
Section 312 meets with Section 002.
26557 PIRW REC 311 TTH 1-230PM B1580 BUS Nagarajan
Section 311 meets with Section 001. This section is reserved exclusively for Minor in Business students.

320 Study Abroad 1.50-3.00 ADVISORY
28525 PD REC 620 ARR ARR Adhvaryu

Dec Making Triple-Bottom Line

STRATEGY 390 is reserved for BBA seniors only.

17417 P REC 001 MW 1-230PM R1240 BUS Frake
17418 P REC 002 MW 230-4PM R1240 BUS Frake
17424 P REC 003 MW 10-1130AM R0240 BUS Nagarajan
17425 P REC 004 TTH 10-1130AM R1220 BUS Gao
17426 P REC 005 MW 4-530PM R1240 BUS Frake
22903 PI REC 006 MW 830-10AM R0240 BUS Nagarajan
28577 P REC 008 TTH 1-230PM R1240 BUS Gao

28577 P REC 008 TTH 1-230PM R1240 BUS Gao

17417 P REC 001 MW 1-230PM R1240 BUS Frake
17418 P REC 002 MW 230-4PM R1240 BUS Frake
17424 P REC 003 MW 10-1130AM R0240 BUS Nagarajan
17425 P REC 004 TTH 10-1130AM R1220 BUS Gao
17426 P REC 005 MW 4-530PM R1240 BUS Frake
22903 PI REC 006 MW 830-10AM R0240 BUS Nagarajan
28577 P REC 008 TTH 1-230PM R1240 BUS Gao

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

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.

445 Base of Pyramid 3.00 ADVISORY 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.

445 Base of Pyramid 3.00 ADVISORY 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.

445 Base of Pyramid 3.00 ADVISORY 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.

445 Base of Pyramid 3.00 ADVISORY 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.

445 Base of Pyramid 3.00 ADVISORY 41.00

Section 322 meets with Section 002 and is reserved exclusively for Minor in Business and Master of Management students.

2019: STRATEGY 445.002/.322 meets with BA 612.001 in R2220 on the following Fridays (9 am - 12 pm) in addition to Wednesday evenings in Fall B: 11/15 and 11/22.
22517 P RW REC 004 TH 630-930PM R1210 BUS Siegel
STRATEGY 503.006 meets with STRATEGY 503.060/.452.
37278 PIRW REC 005 SA 9-12PM ARR Zhou

2019, This course will take place in B0560.
21026 P RW REC 030 TH 630-930PM R1210 BUS Siegel
STRATEGY 503.040 meets with STRATEGY 503.004. This section is reserved for MBA1s.
37279 PIRW REC 050 SA 9-12PM ARR Zhou

22519 P RW REC 040 TH 630-930PM R1210 BUS Siegel
STRATEGY 503.060 meets with STRATEGY 503.006/.452.
37280 PIRW REC 045 SA 9-12PM ARR Zhou

2019, This course will take place in B0560.
24943 PIRW REC 451 TTH 230-4PM R1230 BUS Zhou
Section 003 meets with Section 451. Section 451 is reserved exclusively for Evening MBA students.
22518 P RW REC 452 TH 630-930PM R1210 BUS Siegel
STRATEGY 503.452 meets with STRATEGY 503.006/060.
37281 PIRW REC 453 SA 9-12PM ARR Zhou

2019, This course will take place in B0560.
525 PI REC 001 MW 430-6PM B1570 BUS Nelidov, Keeler
STRATEGY 525 is cross-listed with NRE 526. This class is reserved for Erb students. Students should contact the Erb Institute (erbinstitute@umich.edu) for registration.

562 Global Health Innov
28656 PIRW REC 001 W 7-10PM R2220 BUS Anupindi

564 Sus Dev I: Ent Intrgr
27964 P RW REC 001 MW 1-230PM R0240 BUS Hoffman, Phillips

565 Sus Dev II: Mkt Tran
29055 P RW REC 001 F 1-230PM R0240 BUS Hoffman, Phillips

598 Strat Benchmarking
23402 PIR REC 001 ARR ARR Jensen
New York City
MO 594 is an elective for students in the Global MBA program at the Ross School of Business. Students enrolled in this course will travel to New York during the week between Fall A and Fall B classes.

630 New Age of Innovtn
22267 P RW REC 001 TTH 1020-1240PM B0560 BUS Krishnan
STRATEGY 630.001 meets with TO 630.001.

672 Strategies-Growth
20843 PIRW REC 001 F 9-1230PM R1220 BUS Karnani

680 Business in Society
23280 PIRW REC 001 TTH 8-1020AM R2210 BUS Csaszar
This course is reserved for students in the Master of Management program.

691 Bus Model Innovation
28616 P RW REC 001 TTH 210-430PM B0560 BUS Aftab

U of M Schedule of Classes Page 468 of 489
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This class will be offered as 1.5 credits in Fall B and 1.5 credits in Winter A.

Section 451 meets with Section 001. Seats in this section are reserved for students in the Evening MBA degree program.

This class is reserved for MSCM students.

Non-Ross students interested in taking TO 628 should reach out to the instructor for permission to enroll.

TO 618.451 meets with TO 618.001.

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### Weekend Master of Business Administration (WMBA)

#### Corporate Strategy (505)
- **20065**: P REC 001 F 330-940PM R2230 BUS Afuah
- **20065**: P REC 001 SA 830-540PM R2230 BUS Afuah
- **20065**: P REC 001 F 330-940PM R2240 BUS Afuah
- **20065**: P REC 001 SA 8-540PM R0220 BUS Afuah

**WMBA 505 is reserved for students in the Weekend MBA program.**

#### Fin Mgmt (506)
- **20068**: P REC 001 F 4-10PM B0570 BUS Carmel
- **20068**: P REC 001 SA 8-6PM B0570 BUS Carmel

**WMBA 506 is reserved for students in the Weekend MBA program.**

#### Managerial Acct (507)
- **20066**: P REC 001 SA 830-540PM B0560 BUS Oswald
- **20066**: P REC 001 SA 830-540PM B1560 BUS Oswald

**WMBA 507 is reserved for students in the Weekend MBA program.**

#### Operations Mgmt (508)
- **20067**: P REC 001 F 4-10PM B1570 BUS Aflaki
- **20067**: P REC 001 SA 8-6PM B1570 BUS Aflaki

**WMBA 508 is reserved for students in the Weekend MBA program.**

#### Comm to Convince (526)
- **25609**: P REC 01A ARR ARR Crawford
- **25609**: P REC 01A ARR ARR James

**WMBA classes are reserved exclusively for students in the Weekend MBA program.**

#### Global Sup Chain Mgt (611)
- **20961**: P REC 001 ARR ARR Anupindi

**WMBA 611.001 is reserved for students in the Weekend MBA program.**

#### Bargain&Infl Skills (612)
- **20924**: P REC 001 F 330-10PM B3560 BUS Kopelman
- **20924**: P REC 001 SA 12-6PM B3560 BUS Kopelman

**WMBA 612.001 is reserved for students in the Weekend MBA program.**

#### Strat Cost Managemnt (613)
- **20932**: P REC 001 ARR ARR Klemstine

**WMBA 613.001 is reserved for students in the Weekend MBA program.**

#### Project Management (617)
- **23644**: P REC 001 ARR ARR Chayet

**Seats in WMBA 617 are reserved exclusively for WMBA students in the Financial Management elective track.**
<table>
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<tr>
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<tr>
<td>618</td>
<td>Capital Mkts &amp; Strat</td>
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<td>23383</td>
<td>This course is reserved for WMBA students in the Financial Management theme.</td>
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<tr>
<td>623</td>
<td>Analytic&amp;Decisions</td>
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<td>24947</td>
<td>Seats in this class are reserved exclusively for WMBA students.</td>
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</table>
Social Work
School Of Social Work

Social Work (SW)

200 Soc Issu of Our Time
29573 P R SEM 001 TTH 10-1130AM G027 WQ 3.00
Galura

300 UG Topics SW Soc Chg
31782 P SEM 001 SASU 9-5PM G020 TMC 1.00
Williams

DECLARE: A Social Justice

305 Comm Action Soc Chg
26969 P LEC 001 T 2-5PM 1033 DENT 3.00 ADVISORY
Eiler

300 Soc Prob&S W Today
20027 P R LEC 001 TTH 1130-1PM B798 SSWB 3.00 ENFORCED
Hawkins

401 CASC Capstone Exp
23249 PD LEC 001 5-7PM B798 SSWB 1.00
Galura

415 Ind Studies: SW
31788 PD LEC 004 M 1-4PM 3629 SSWB 1.00-3.00 ADVISORY
Richards-Schuster

503 Foundation Topics SW
32767 P LEC 001 F 12-2PM B780 SSWB 1.00
Shaefer

Real Wrd Perspc Poverty Solut

The first two dates of this class will meet in SSWB B780 and the following sessions will meet in SSWB 1840.

Structured as a noon hour lecture series, Real World Perspectives on Poverty Solutions features different guest speakers each week to introduce the key issues regarding the causes and consequences of poverty. The course explores interdisciplinary, real-world poverty solutions from a wide variety of perspectives. By bringing national and global leaders, we aim to ignite new conversations and deepen existing commitments regarding poverty prevention and alleviation strategies and programs.

504 Diver & Soc Jus
24181 P R SEM 001 M 6-9PM B684 SSWB 3.00
Barinbaum

Women in Leadership

Only incoming MSW students enroll in this mini course.

510 SEED Mini-course
25677 PD SEM 001 T 1-5PM B684 SSWB 1.00 ADVISORY
Davis

Prgrm Impact: Cons Comm Agency

Only incoming MSW students enroll in this mini course.

510 SEED Mini-course
25688 PD SEM 003 T 1-5PM B770 SSWB 1.00 ADVISORY
Savas

SW in the D: Prep Wayne County

Only incoming MSW Detroit Clinical, HRSA, and HRSA-SUD Scholars should enroll in this section. Scholars will
receive an electronic permission prior to registration.

Art & Science of Clinical SW
Only incoming MSW students enroll in this mini course.

Exp/Adventure Facilit SW Prac
Only incoming MSW students enroll in this mini course.

Sport Social Work
Only incoming MSW students enroll in this mini course.

Child Maltr & Juvenile Crime
Only incoming MSW students enroll in this mini course. Priority is given to Child Welfare Scholars. Scholars will receive an electronic permission prior to registration. Others may enter on a space available basis.

Self-Reflec Mindfuln Caring
Only incoming MSW students enroll in this mini course.

LGBTQ Educ Engage & Empow
Only incoming MSW students enroll in this mini course.

Comm Conflct Tran Peac Soc Chg
Only incoming MSW students enroll in this mini course.

Art & Design for SW, Soc Just
Meets in room B631 in the School of Social Work building.

Comm Conflict Tran Peac Soc Chg
Only incoming MSW students enroll in this mini course.

Creativ Interven Child & Youth
Only incoming MSW students enroll in this mini course.
<table>
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<tr>
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<tr>
<td>30062</td>
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<td>1-5PM</td>
<td>3629 SSWB</td>
<td>Hodge</td>
<td>1.00 ADVISORY</td>
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<tr>
<td>510</td>
<td>SEED Mini-course</td>
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<tr>
<td>P</td>
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<tr>
<td>30063</td>
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<td>1-5PM</td>
<td>ARR</td>
<td>Tropman</td>
<td>1.00 ADVISORY</td>
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<td>SEM 017 TH</td>
<td>830-2PM</td>
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Leadership and Management

Only incoming MSW students enroll in this mini course.

Meets in room 3661 in the School of Social Work building.

### IP Prac Skills Lab

<table>
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<tr>
<th>CAT#</th>
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<td>24170</td>
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<tr>
<td>30063</td>
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<td>1-5PM</td>
<td>ARR</td>
<td>Tropman</td>
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<td>830-2PM</td>
<td>ARR</td>
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</table>

Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 521.

Detroit Clinical Scholars and New Leaders in African Centered Social Work Scholars with an Interpersonal Practice concentration should enroll in this section (macro concentrators take SW 512). Any other students should select a different section or will need to submit a Course Enrollment Petition via the School of Social Work web site.

Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students admitted prior to the Fall 2019 term should not enroll and may be required to drop the class if enrolled.

### Mac Prac Skills Lab

<table>
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<tr>
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<td>30063</td>
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<td>SEM 017 TH</td>
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Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 521.

Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

### Ind Studies Aging

<table>
<thead>
<tr>
<th>CAT#</th>
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Enrollment is not permitted in this section. Select another section.
Only students beginning the MSW program in the upcoming Fall term should enroll in this course. Continuing students should not enroll and may be required to drop the class if enrolled.

Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 511.

- 518 Ind Studies Aging
  - 14523 PDR LEC 001 M 9-12PM 2752 SSWB Yoshihama

Incoming Students - By enrolling in this section you are also committed to enroll in section 002 of SW 511.

- 519 Ind Stds Hum Behav
  - 14524 P R LEC 003 M 9-12PM B684 SSWB Ribaudo

Incoming Students - By enrolling in this section you are also committed to enroll in section 003 of SW 511.

- 520 Ind Stds Hum Behav
  - 14525 P R LEC 004 M 9-12PM B760 SSWB Tolman

Incoming Students - By enrolling in this section you are also committed to enroll in section 004 of SW 511.

- 521 IP Indiv Fam Groups
  - 14526 P R LEC 005 M 9-12PM B770 SSWB Larance

Incoming Students - By enrolling in this section you are also committed to enroll in section 005 of SW 511.

- 522 IP Indiv Fam Groups
  - 14527 P R LEC 006 M 9-12PM B780 SSWB Baldwin Steller

Incoming Students - By enrolling in this section you are also committed to enroll in section 006 of SW 511.

- 523 IP Indiv Fam Groups
  - 14528 P R LEC 007 M 9-12PM B798 SSWB Kaplan

Incoming Students - By enrolling in this section you are also committed to enroll in section 007 of SW 511.

- 524 IP Indiv Fam Groups
  - 14529 P R LEC 008 W 5-8PM B780 SSWB Boussi

Incoming Students - By enrolling in this section you are also committed to enroll in section 008 of SW 511.

- 525 IP Indiv Fam Groups
  - 14530 P R LEC 009 W 5-8PM B770 SSWB Trujillo

Incoming Students - By enrolling in this section you are also committed to enroll in section 009 of SW 511.

- 526 IP Indiv Fam Groups
  - 14531 P R LEC 010 T 6-9PM 3816 SSWB Stern

Incoming Students - By enrolling in this section you are also committed to enroll in section 010 of SW 511.

- 527 IP Indiv Fam Groups
  - 14532 P R LEC 011 W 9-12PM 1804 SSWB Radziwloski

This section will be taught as hybrid course which means you will have a combination of web-based class sessions and face-to-face class sessions. This section will meet in person, in class on the following dates: 9/4, 9/25, 10/16, 10/30, 11/20, and 12/4.

- 528 IP Indiv Fam Groups
  - 14533 P R LEC 012 W 5-8PM 3629 SSWB Stern

This section will be taught as hybrid course which means you will have a combination of web-based class sessions and face-to-face class sessions. This section will meet in person, in class on the following dates: 9/4, 9/25, 10/16, 10/30, 11/20, and 12/4.
This section will be taught as hybrid course which means that sometimes you will have a combination of web-based class sessions and face to face class sessions. This section will meet in person, in class on the following dates:

Sept 4, 18, 25, Oct 9, 23, Nov 6, 13, Dec 11.

19174 P R LEC 008 W 9-12PM B760 SSWB De Four
24704 P R LEC 009 W 9-12PM B770 SSWB Crabb
25759 P R LEC 010 W 9-12PM B684 SSWB Knauer
30074 P R LEC 011 W 9-12PM 3629 SSWB Pace

531 Fndtn Field Educ Sem 1.00 ENFORCED
22609 P R SEM 001 T 12-2PM 1804 SSWB Crabb
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

37877 P R SEM 002 T 12-2PM ARR Crabb
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

22611 P R SEM 003 T 12-2PM 2752 SSWB Eldridge
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

22612 P R SEM 005 T 12-2PM 2629 SSWB Naasko
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

22613 P R SEM 007 T 12-2PM 3752 SSWB Peterson
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

22614 P R SEM 009 T 12-2PM 3816 SSWB Price
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

25351 P R SEM 011 T 12-2PM  B770 SSWB Robertson
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

25352 P R SEM 013 T 12-2PM B684 SSWB Vanderwill
Enrollment in this section does not guarantee you will be assigned to this Field faculty member and your section may be changed.

32602 P R SEM 015 T 12-2PM 3629 SSWB Robinson

532 Ind Stds Health I IND + ARR 1.00-3.00 ADVISORY
533 Ind Stds Health I IND + ARR 1.00-3.00 ADVISORY
534 Ind Internship Stds I IND + ARR 1.00-6.00

540 Trauma Basics 1.00
33012 PD SEM 001 ARR ARR Herrenkohl
In person session will meet in North Ingalls Bldg, NIB1000.

For possible permission to register the following form must be submitted:
https://ssw.umich.edu/r/sw-540-course-petition

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 October 19 and all pre-learning work must be complete prior to this required session.

Outside of Class Pre-learning Work: 9/9/19 - 10/11/19
All Day Workshop: 10/19/19
Outside of Class Post-work: 10/21-10/26/19

541 Trauma Practice 1.00 ENFORCED
32290 P R SEM 001 ARR ARR Saunders

Class meets:
1. Outside of Class Pre-learning Work: 10/21/19-11/22/19
2. All Day Workshop: 11/23/19
3. Outside of Class Post-work: 11/25/19-12/6/19

546 Ind Stds SWPS I IND + ARR 1.00-3.00 ADVISORY
547 Ind Stds SWPS I IND + ARR 1.00-3.00 ADVISORY
553 Ind Stds Comm Org I IND + ARR 1.00-3.00 ADVISORY
554 Ind Stds Comm Org I IND + ARR 1.00-3.00 ADVISORY
555 Ind Stds Comm & SS I IND + ARR 1.00-3.00 ADVISORY
556 Ind Stds Comm & SS I IND + ARR 1.00-3.00 ADVISORY

560 CO Mgt Pol Eval Pract 3.00 ENFORCED
14678 P R LEC 001 M 9-12PM 1804 SSWB Park
Incoming Students - By enrolling in this section you are also committed to enroll in section 001 of SW 512. Continuing students that need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.
14679 P R LEC 002 M 9-12PM 3752 SSWB Blackburn
Incoming Students - By enrolling in this section you are also committed to enroll in section 002 of SW 512. Continuing students that need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.
14680 P R LEC 003 M 9-12PM 3629 SSWB Ghazi-Edwin
Incoming Students - By enrolling in this section you are also committed to enroll in section 003 of SW 512. Continuing students that need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.
<table>
<thead>
<tr>
<th>CAT#</th>
<th>Course Title</th>
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<td>Incoming Students - By enrolling in this section you are also committed to enroll in section 004 of SW 512. Continuing students that need to enroll in SW 560 and not in SW 512 need to choose a section other than 001-004.</td>
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<td>This section will be taught as a hybrid course which means you will have a combination of web-based class sessions and face-to-face class sessions. This section will meet in person, in class on the following dates: Sept 9, 23, Oct 28, Nov 11, Dec 9.</td>
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<td>14682</td>
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<td>This section will be taught as a hybrid course which means that sometimes you will have a combination of web-based class sessions and face-to-face class sessions. This section is tentatively scheduled to meet in person, in class on the following dates: Sept 9, 23, Oct 28, Nov 11, Dec 9.</td>
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The course description can be found at: [https://pharmacy.umich.edu/service](https://pharmacy.umich.edu/service). Note that permission is required to register for this course. Kinesiology 581, MoveSci 481, Pharmacy 503, PubHlth 503, and Social Work 573 are cross-listed courses. If you would like to register for Kinesiology 581, MoveSci 481, SW 573 or PubHlth 503 please send a request, including your student ID#, to ServiceForHealth@umich.edu.
This is the appropriate course for incoming Community Scholars (both CBI & NCS).

623  Pract with Families  3.00  ADVISORY, ENFORCED
13475  P R LEC 001  W  9-12PM  B798 SSWB  Sampson
13476  P R LEC 002  TH  6-9PM  2629 SSWB  Ziglar
15835  P R LEC 003  F  9-12PM  3816 SSWB  Chute
19795  P R LEC 004  F  2-5PM  3816 SSWB  Chute

624  Interprac-Groups  3.00  ADVISORY, ENFORCED
13477  P R LEC 001  TH  9-12PM  B780 SSWB  Heap
13478  P R LEC 002  TH  2-5PM  1636 SSWB  Crane
30073  P R LEC 003  F  9-12PM  B798 SSWB  Iaderosa

625  Child & Youth  3.00  ADVISORY, ENFORCED
13479  P R LEC 001  W  9-12PM  3752 SSWB  Sanders
17946  P R LEC 002  F  9-12PM  2752 SSWB  Sanders

628  IP - Adult Indiv  3.00  ADVISORY, ENFORCED
13480  P R LEC 001  M  6-9PM  1804 SSWB  Heckendorn
19176  P R LEC 002  W  5-8PM  B770 SSWB  Heckendorn
27446  P R LEC 003  TH  9-12PM  1636 SSWB  Martinez-Gilliard

629  Schi SWorker Interv  3.00  ADVISORY
22958  P R LEC 001  T  6-9PM  3752 SSWB  Fitzgerald
22959  P R LEC 002  F  9-12PM  3752 SSWB  Sherman

642  Sch SWorker Pol Serv  3.00  ADVISORY, ENFORCED
13502  P R LEC 001  W  9-12PM  2629 SSWB  Sherman

650  Community Developmt  3.00  ADVISORY, ENFORCED
24351  P R LEC 001  W  9-12PM  1636 SSWB  Checkoway

651  Plan Org&Com Chg  3.00  ADVISORY, ENFORCED
29318  P R LEC 001  TH  2-5PM  B760 SSWB  Checkoway

652  Org Soc&Pol Action  3.00  ADVISORY, ENFORCED
16975  P R LEC 001  TH  9-12PM  B770 SSWB  Friedline

658  Women&Community Org  3.00  ADVISORY, ENFORCED
32643  P R LEC 001  TH  6-9PM  3752 SSWB  Reed

659  Prac in Afr Amer Com  1.00  ADVISORY
25197  P R SEM 001  TH  6-9PM  1804 SSWB  Hodge

659  Prac in Afr Amer Com  1.00
22958  P R LEC 001  T  6-9PM  3752 SSWB  Fitzgerald
22959  P R LEC 002  F  9-12PM  3752 SSWB  Sherman

660  Mng Progr&Projects  3.00  ADVISORY, ENFORCED
19178  P R LEC 001  TH  9-12PM  3752 SSWB  Doyle

661  Budget&Fiscal Mgt  3.00  ADVISORY, ENFORCED
24352  P R REC 001  F  2-5PM  B760 SSWB  Dockham

663  Fundr&Grant Writing  3.00  ADVISORY, ENFORCED
13484  P R LEC 001  TH  9-12PM  B770 SSWB  Doyle
16169  P R LEC 002  F  2-5PM  2629 SSWB  Cushman

671  Soc Pol Dev&Enactmt  3.00  ADVISORY, ENFORCED
21440  P R LEC 001  TH  9-12PM  B684 SSWB  Hodge

673  Stat Pol Analy&Eval  3.00  ADVISORY, ENFORCED
13491  P R LEC 001  W  9-12PM  B780 SSWB  Grogan-Kaylor
25331  P R LEC 002  TH  2-5PM  B684 SSWB  Perry
16288  P R LEC 003  F  9-12PM  1636 SSWB  Perron

674  Com-Based Pol Advoc  3.00  ADVISORY, ENFORCED
20854  P R LEC 001  W  5-8PM  1804 SSWB  Hodge

683  Eval In Social Work  3.00  ADVISORY, ENFORCED
13487  P R LEC 001  M  6-9PM  B770 SSWB  Glenn
13488  P R LEC 002  W  5-8PM  2629 SSWB  Ellis
17127  P R LEC 003  TH  9-12PM  2752 SSWB  Savas
18464  P R LEC 004  TH  9-12PM  B780 SSWB  Herrenkohl
24319  P R LEC 005  TH  6-9PM  B798 SSWB  Klumpner
20980  P R LEC 006  F  9-12PM  B770 SSWB  Savas
26906  P R LEC 007  F  2-5PM  B770 SSWB  Herrenkohl

685  Meth Prog Eval  3.00  ADVISORY, ENFORCED
28645  P R LEC 001  F  2-5PM  1804 SSWB  Savas

691  Adv Field Education  1.00-12.00  ADVISORY
I  IND  +  ARR  ARR
Enrollment is not permitted in this section. Select another section.

692  Sem Jewish Com Ldrshp  2.00
20573  PD  SEM 001  W  5-8PM  1794 SSWB  Goldman
This course is for JCLP students only who will receive an electronic permission prior to registration to allow for enrollment in the course.

693  Geriatric Integ Sem  3.00  ENFORCED
14453  P R LEC 001  TH  9-12PM  1804 SSWB  Dubin

694  SW with Older Adults  3.00  ADVISORY, ENFORCED
16035  P R LEC 001  TH  9-12PM  B760 SSWB  Dubin

696  Practice Child&Yth  3.00  ADVISORY, ENFORCED
16036  P R LEC 001  TH  9-12PM  B760 SSWB  Cordova Jr

698  Pract Mental Health  3.00  ADVISORY, ENFORCED
16048  P R LEC 001  T  6-9PM  3629 SSWB  Glenn
16219  P R LEC 002  TH  2-5PM  B798 SSWB  Willand
This course will have an Interprofessional Education (IPE) focus. Graduate students from pharmacy, dentistry, medicine, nursing, public health, kinesiology, and social work are eligible to enroll in this course.

In addition to the one hour meeting dates, in this course, students will participate on an interprofessional team at the student-run health clinic in Pinckney, MI a minimum of 3 times in the term. They will also meet for individual and group supervision meetings with the course instructor throughout the term (Sept 6, 13, Oct 11, Nov 8, Dec 6). Students will gain skills in interprofessional teamwork and communication.

This course is available to 16 month and advanced standing students but enrollment is limited and a Course Enrollment Petition will need to be submitted via the SSW web site.

In addition to the one hour meeting dates, in this course, students will participate on an interprofessional team at the student-run health clinic in Pinckney, MI a minimum of 3 times in the term. They will also meet for individual and group supervision meetings with the course instructor throughout the term (Sept 6, 13, Oct 11, Nov 8, Dec 6). Students will gain skills in interprofessional teamwork and communication.

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This course is available to 16 month and advanced standing students but enrollment is limited and a Course Enrollment Petition will need to be submitted via the SSW web site.
This class is an interdisciplinary problem solving class offered at the Law School through the Problem Solving Initiative (PSI). Narratives around combating human trafficking are narrowly construed, with white cisgender girls typically portrayed as the victims of heteronormative sex trafficking. Such narratives, and interventions meant to aid trafficking victims, overlook LGBTQ+ communities and fail to address their needs. In this class, students will work with stakeholders and incorporate insights from law, social work, public policy, health sciences, and other fields to identify interventions designed to help LGBTQ+ trafficking victims.

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/) March 18 - April 1, 2019. After the initial application period, students seeking to apply can contact problemsolving@umich.edu.

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<thead>
<tr>
<th>Course Title</th>
<th>CR</th>
<th>PREREQ</th>
<th>LAB FEE</th>
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<tbody>
<tr>
<td>New Leadr African SW</td>
<td>1.00</td>
<td>ADVISORY</td>
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<tr>
<td>Immigr Soc Just &amp; SW</td>
<td>3.00</td>
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<tr>
<td>Psychopharm For Social Workers</td>
<td>9-5PM</td>
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<tr>
<td>Working w/Couples in Therapy</td>
<td>9-5PM</td>
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<tr>
<td>Theory &amp; Prac Infant Mntl Hlth</td>
<td>9-5PM</td>
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<tr>
<td>Attach Thry Clin Prac Life Spn</td>
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<tr>
<td>Dialogue for Equity &amp; Soc Just</td>
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<tr>
<td>Posem in SW&amp;Soc Sci</td>
<td>130-330PM</td>
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<tr>
<td>Hist/Contem SW&amp;SWELF</td>
<td>2-5PM</td>
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</table>

This course is for New Leaders in African-Centered Social Work Scholars only. Scholars will receive an electronic permission to enroll in this course prior to registration. This course will meet on the following dates: Sept 26, Oct 10, 24, 31, Nov 21.

Students must be at the doctoral level to enroll in this class. Those with less than doctoral standing must seek permission of the course instructor. Students with less than doctoral standing may be dropped if appropriate approval was not sought.
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<td>862</td>
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<td>Diss-Cand</td>
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Class will meet in room 3661 SSWB.

Students must be at the doctoral level to enroll in this class. Those with less than doctoral standing must seek permission of the course instructor. Students with less than doctoral standing may be dropped if appropriate approval was not sought.

This class will be meeting over two weekends that will include a Thursday and two Fridays. Here are the date details:

- October 11, 12, 13 9am-4pm
- October 17 2-5pm
- October 18, 19, 20 9am-4pm
**Stamps School of Art & Design**

**School Of Art And Design**

**Art and Design Study Abroad (ADABRD)**

<table>
<thead>
<tr>
<th>Class #</th>
<th>Code</th>
<th>CMP</th>
<th>SEC</th>
<th>DAYS</th>
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<td>P RW LAB</td>
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**Art and Design (ARTDES)**

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<td>2044 A&amp;AB</td>
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<td>115</td>
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<td>830-1045AM</td>
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**U of M Schedule of Classes**

Page 485 of 489  
FA 2019 2260 09-09-2019 12:09 21610809
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U of M Schedule of Classes Page 486 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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Created Life in A&D

Academic Seminar

Sexual Objects

Writing in A&D

Narrative Forms

Unfashionable

Design Studio: D.N.E.P

BA Senior Studio

IPD

SciFi Prototype

Adv Typography

Packaging Design

Advanced Comics

Translation

Int Project I

MFA Research Methods

MFA Critique

Directed Studio

Directed Studio

Directed Studio

Directed Studio

Directed Studio

Directed Studio

Directed Studio

MDes Resrch Methods

Design Studio 1B

U of M Schedule of Classes Page 488 of 489 FA 2019 2260 09-09-2019 12:09 21610809
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**Interarts Performance (INTPERF)**

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