

Western



Department of Chemistry

Western University

Chemistry 4491E

Presentation and Thesis Examination Day

Saturday, April 7, 2018

Course Coordinators

John F. Corrigan and Mark S. Workentin

The Department of Chemistry is gratefully acknowledged for supporting the coffee break and lunch time celebration at the conclusion of the program

PARKING INFO



Western Parking Permits

CORE PARKING

- A** Kent Dr. (Reserved permits only)
- J** Social Science (Reserved permits only)
- D** D.B. Weldon (Reserved permits only)
- K** Support Services
- L** Lambton
- E** Upper Heating
- F** Talbot
- W** Siebens (Reserved permits only)
- G** Middlesex

PERIMETER PARKING

- B** Westminster
- H** Althouse
- I** Springett
- P** South Valley
- Q** Chemistry
- T** Tower Lane
- X** Elborn College
- Y** Visual Arts

STUDENT PARKING

- H** Althouse
- I** Springett
- N** Ontario
- R** Medway
- S** Huron Flats

VISITOR PARKING

- A** Kent Drive
- D** D.B. Weldon
- J** Social Science
- M** Alumni / Thompson
- V** Ivey (RESTRICTED PARKING)

PATIENT LOTS

- C** Medical Science
Plus Fowler Clinic (Kent Dr.)

UNIVERSITY APARTMENT PARKING

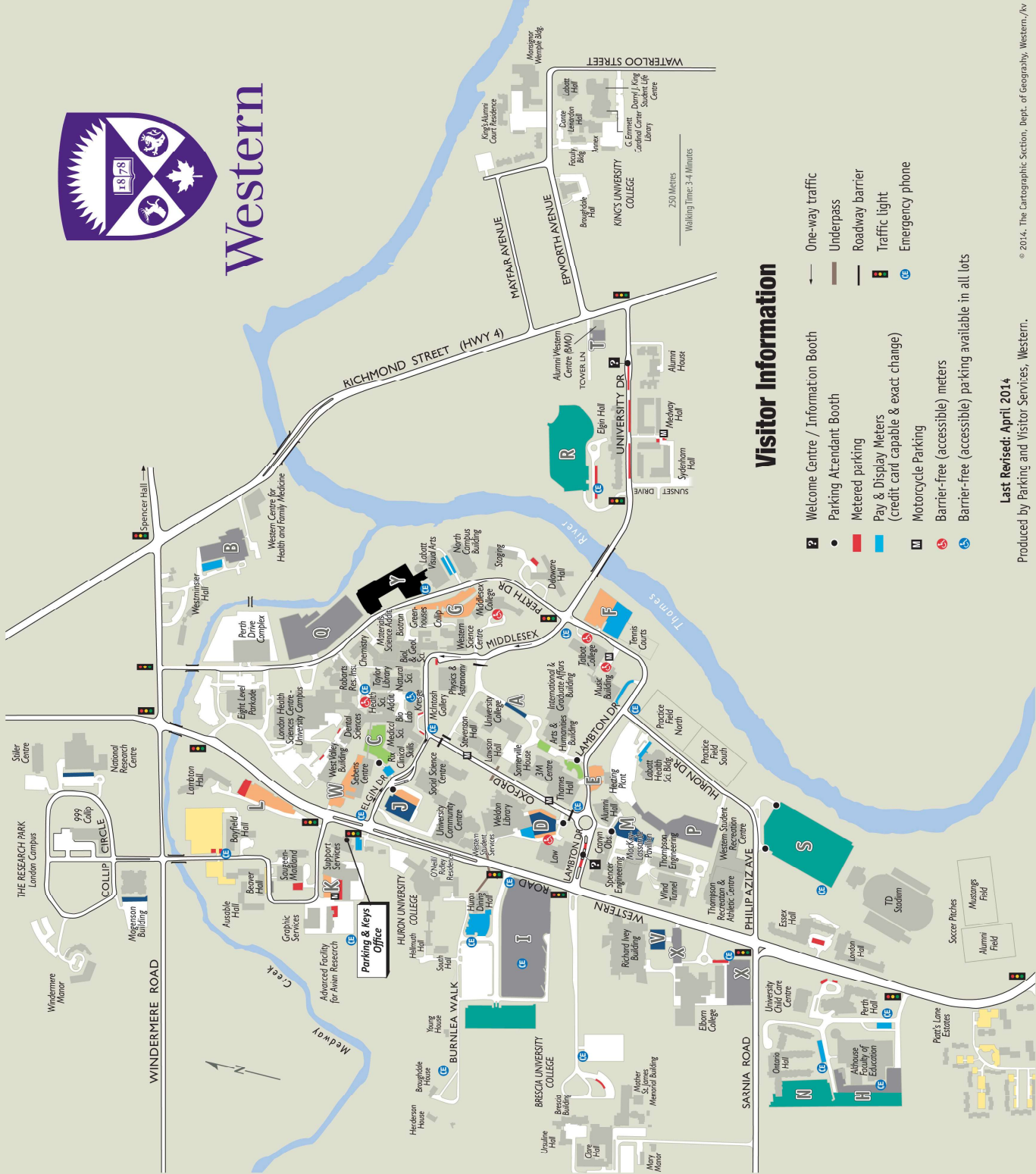
An apartment permit is required.

WEEKEND FREE PARKING

Lots identified by the **WF** icon have free parking from Fridays at 5pm to Mondays at 7am. **The Siebens free parking begins Fridays at 7pm.



Western



Visitor Information

- Welcome Centre / Information Booth
- Parking Attendant Booth
- Metered parking
- Pay & Display Meters (credit card capable & exact change)
- Motorcycle Parking
- Barrier-free (accessible) meters
- Barrier-free (accessible) parking available in all lots
- One-way traffic
- Underpass
- Roadway barrier
- Traffic light
- Emergency phone

Last Revised: April 2014
Produced by Parking and Visitor Services, Western.

© 2014, The Cartographic Section, Dept. of Geography, Western, /v

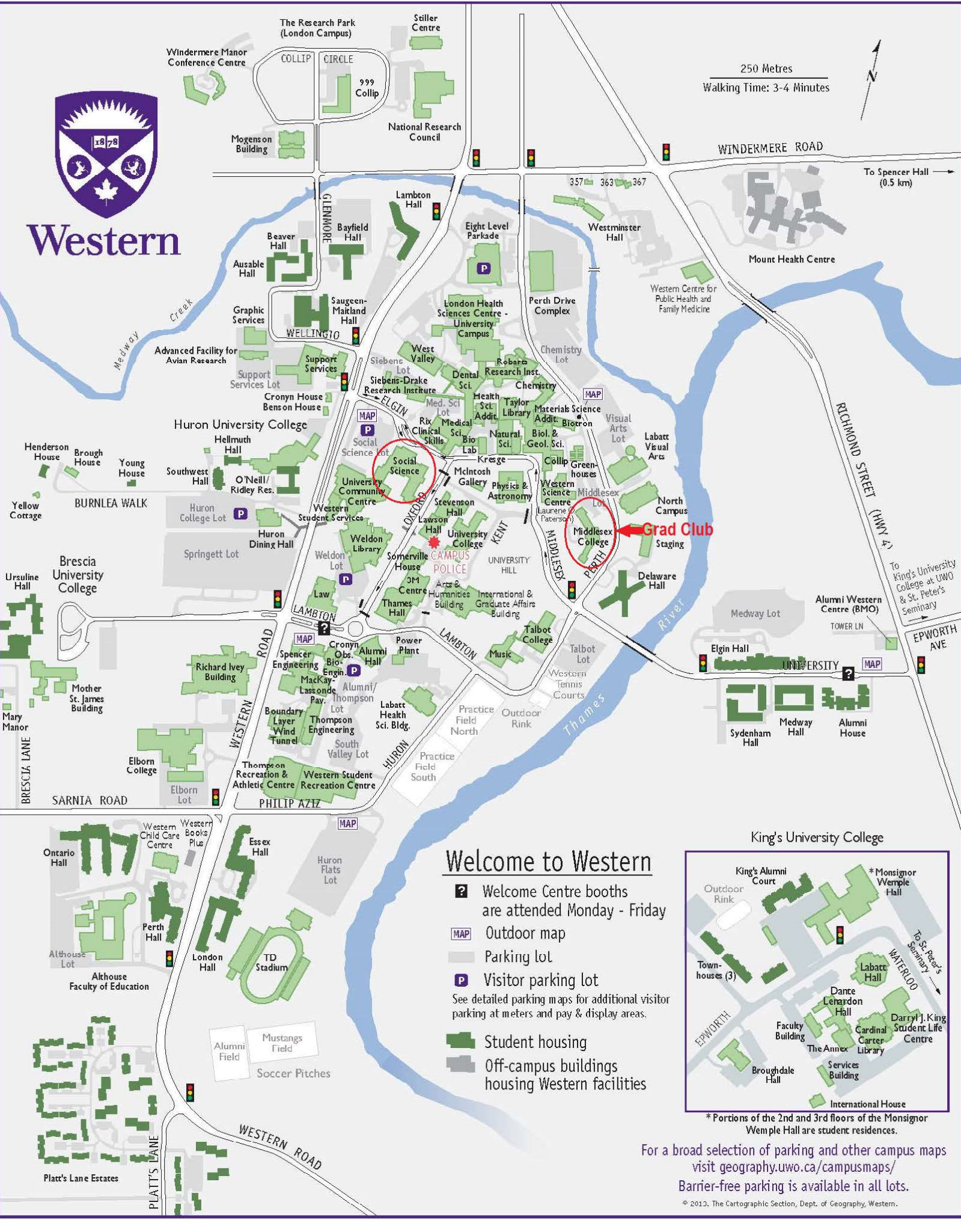
Social Science Centre (SSC)



Map & Directions to SSC Next Page

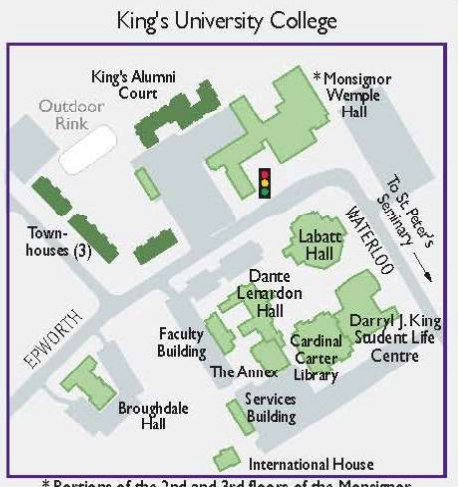


250 Metres
Walking Time: 3-4 Minutes



Welcome to Western

- Welcome Centre booths are attended Monday - Friday
 - Outdoor map
 - Parking lot
 - Visitor parking lot
- See detailed parking maps for additional visitor parking at meters and pay & display areas.
- Student housing
 - Off-campus buildings housing Western facilities



* Portions of the 2nd and 3rd floors of the Monsignor Wemple Hall are student residences.

For a broad selection of parking and other campus maps visit geography.uwo.ca/campusmaps/
Barrier-free parking is available in all lots.

SOCIAL SCIENCE CENTRE



LEVEL THREE

SSC 3006				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Abd Elbrahim, Malaz	POD-1	LGL	KY
9:10	Tu, Geran	LGL-2	KY	POD
9:50	Korkola, Natalie	MJS-1	LK	LGL
10:30	COFFEE BREAK IN FOYER			
11:00	Bulcan-Gnriss, Mariel	LGL-1	Mark W. Sumarah	MJS
11:40	Kataria, Drishti	LK-1	POD	Mark W. Sumarah
12:20	Maloney, Emily	MSW-1	LK	RHEH
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

SSC 3010				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Nilsson, Hannah	JMB-1	JFC	RJP
9:10	Pottier, Rachel	JFC-1	JMB	PJR
9:50	Stephens, David G.	JMB-2	JBG	PJR
10:30	COFFEE BREAK IN FOYER			
11:00	Ravichandran, Rabinthhan	PRJ / JAW	JFC	KMB
11:40	Kiteley, Curtis	KMB-2	BLP	JAW
12:20	Yunyaeva, Olga	PRJ / ERG	JAW	BLP
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

SSC Room 3028				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Wheatley, Mark	RF / TKS	MJS	YH
9:10	Ho, Ryan	YS / YH	MSW	MJS
9:50	Parto, Yasan	TKS	ZD	DWS
10:30	COFFEE BREAK IN FOYER			
11:00	Gill, Karanpreet	YH-3	RJP	Roberta Flemming
11:40	Olechnowicz, Maya	YH-2	Roberta Flemming	JFC
12:20				
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

SSC 3026				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Apros, Christopher	JBG-1	MAK	JAW
9:10	Dickson, Courtney	KMB-1	BLP	MAK
9:50	Koo, Donghuyn	BLP-2	KMB	Gilles Arsenaull
10:30	COFFEE BREAK IN FOYER			
11:00	Botelho, Michael	MAK-1	RHEH	JMB
11:40	Bridge, Benjamin	MAK-2	MSW	RHEH
12:20	Classen, Kyle	ERG-1	Gilles Arsenaull	MAK
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

NOTE: REFER SUBSEQUENT PAGES FOR TOPIC TITLES.

SSC 3014				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Almusned, Baian	JJN-2	ZD	KG
9:10	Braithwaite, Lindsay	JJN-3	FL-L	ZD
9:50	Le, Mandy	JJN-5	KG	FL-L
10:30	COFFEE BREAK IN FOYER			
11:00	Laylo, Patricia	JJN-5 / TKS	RRHM	DWS
11:40	Tully, Claire	JJN-1	YS	RRHM
12:20	Mohammad, Maryam	DWS	JJN	YS
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

SSC 3018				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30				
9:10				
9:50				
10:30	COFFEE BREAK IN FOYER			
11:00	Legge, Sydney	FL-L / MSW	JBG	YS
11:40	Park, Jun-Hyeong	MSW / PJR / MAK	JMB	JBG
12:20	Powell, Zachary K.	JBG-2	MSW	RJP
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

SSC 3022				
Time	Student	Supervisor(s)	EXAMINER 1	EXAMINER 2
8:30	Joseph, Jenée A.	VNS	SC	MK
9:10	Szukalo, Ryan	SC-2	VNS	MK
9:50	Ye, Xin (Linda)	MK-1	SC	VNS
10:30	COFFEE BREAK IN FOYER			
11:00	Ly, Malin	ZD-3	SC	LK
11:40	Wong, Jonathan	ZD-1	KG	VNS
12:20				
13:00				
13:15	CLASS PHOTO LOCATION: TBA			
13:30	LUNCH — GRAD CLUB, MIDDLESEX COLLEGE			

NOTE: REFER SUBSEQUENT PAGES FOR TOPIC TITLES.

Room SSC 3006

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule.

8:30 AM

(1) ABD ELRAHIM, Malaz

(SUPERVISOR: POD-1)

"Improving phosphoprotein yield using an RNA-guided genetic code recoding system in *Escherichia coli*"

EXAMINER 1: Len G. Luyt

EXAMINER 2: Ken Yeung

11:00 AM

(4) BULCAN-GNIRSS, Mariel

(SUPERVISOR: LGL-1)

"A Study of the Fluorescent Properties of Rhenium-Naphthalimide Complexes"

EXAMINER 1: Mark W. Sumarah

EXAMINER 2: Martin J. Stillman

9:10 AM

(2) TU, Geran

(SUPERVISOR: LGL-2)

"Fluorescent Integrated Stapled Ghrelin(1-20) Analogues for the Targeting of GHSR-1a in Cancer"

EXAMINER 1: Ken Yeung

EXAMINER 2: Patrick O'Donoghue

11:40 AM

(5) KATARIA, Drishti

(SUPERVISOR: LK-1)

"Examining the Effects of Oxidative Damage on Protein Stability using Electrospray Mass Spectrometry"

EXAMINER 1: Patrick O'Donoghue

EXAMINER 2: Mark W. Sumarah

9:50 AM

(3) KORKOLA, Natalie

(SUPERVISOR: MJS-1)

"Studying the Folding of an Intrinsically Disordered Human Protein Using Electrospray Ionization Mass Spectrometry"

EXAMINER 1: Lars Konermann

EXAMINER 2: Len G. Luyt

12:20 AM

(6) MALONEY, Emily

(SUPERVISORS: MSW-1)

"Development of a Liquid Chromatography/Tandem Mass Spectrometric Method for the Quantitation of 24 Mycotoxins in Wheat and Corn"

EXAMINER 1: Lars Konermann

EXAMINER 2: Robert H.E. Hudson

10:30 AM COFFEE BREAK—Foyer

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

Room SSC 3026

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule.

8:30 AM

(1) APROS, Christopher

(SUPERVISOR: JBG-1)

"Probing the Reactivity of Boron Complexes of Tetradentate Formazanate Ligands"

EXAMINER 1: Michael A. Kerr

EXAMINER 2: James A. Wisner

11:00 AM

(4) BOTELHO, Michael

(SUPERVISOR: MAK-1)

"A New Method for the Activation of Donor-Acceptor Cyclopropanes"

EXAMINER 1: Robert H.E. Hudson

EXAMINER 2: Johanna M. Blacquiere

9:10 AM

(2) DICKSON, Courtney

(SUPERVISOR: KMB-1)

"The Reaction of Electrophilic Alkynes with Silylamines"

EXAMINER 1: Brian L. Pagenkopf

EXAMINER 2: Michael A. Kerr

11:40 AM

(5) BRIDGE, Benjamin

(SUPERVISOR: MAK-2)

"Progress Towards the Formal Synthesis of Chanoclavine I"

EXAMINER 1: Mark S. Workentin

EXAMINER 2: Robert H.E. Hudson

9:50 AM

(3) KOO, Donghuyn

(SUPERVISOR: BLP-2)

"Synthesis of Novel Benzosiloles as Electrochemiluminescence chromophores"

EXAMINER 1: Kim M. Baines

EXAMINER 2: Gillies Arsenault

12:20 PM

(6) CLASSEN, Kyle

(SUPERVISOR: ERG-1)

"Synthesis of Thermo-responsive and Self-immolative Polymers from Poly(ethyl glyoxylate)"

EXAMINER 1: Gillies Arsenault

EXAMINER 2: Michael A. Kerr

10:30 AM COFFEE BREAK—Foyer

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

Room SSC 3010

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule.

8:30 AM

(1) NILSSON, Hannah

(SUPERVISORS: JMB-1)

"Hemilabile NHCs for Oxidation Chemistry with Ni(II)"

EXAMINER 1: John F. Corrigan

EXAMINER 2: Richard (Dick) Puddephatt

11:00 AM

(4) RAVICHANDRAN, Rabinthhan

(SUPERVISOR: PJR/JAW)

"Determination of Phosphonium Salt Association Constants"

EXAMINER 1: John F. Corrigan

EXAMINER 2: Kim M. Baines

9:10 AM

(2) POTTIER, Rachel

(SUPERVISORS: JFC-1)

"N-Heterocyclic Carbene Ligated t-Butylthiolates of Ag(I) and Cu(I)"

EXAMINER 1: Johanna M. Blacquiere

EXAMINER 2: Paul J. Ragogna

11:40 AM

(5) KITELEY, Curtis

(SUPERVISOR: KMB-2)

"Exploring Alternative Methods for the Synthesis of Difunctional Germanes"

EXAMINER 1: Brian L. Pagenkopf

EXAMINER 2: James A. Wisner

9:50 AM

(3) STEPHENS, David G.

(SUPERVISOR: JMB-2)

"Reactivity Studies of Stabilized Low Coordinate Palladium Species"

EXAMINER 1: Joe B. Gilroy

EXAMINER 2: Paul J. Ragogna

12:20 PM

(6) YUNYAEVA, Olga

(SUPERVISORS: PJR/ERG)

"Ionic Networks for Controlled Drug Delivery"

EXAMINER 1: James A. Wisner

EXAMINER 2: Brian L. Pagenkopf

10:30 AM COFFEE BREAK—Foyer

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

Room SSC 3014

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule

8:30 AM

(1) ALMUSNED, Baian

(SUPERVISORS: JJN-2)

"The Role of Molybdenum in the Passivity of Ni-Cr-Mo Alloys in Chloride Containing Environments"

EXAMINER 1: Zhifeng Ding

EXAMINER 2: Keith Griffiths

11:00 AM

(4) LAYLO, Patrica

(SUPERVISOR: JJN-5/TKS)

"Electrocleaning Study of Daguerreotypes"

EXAMINER 1: Ron R.H. Martin

EXAMINER 2: David W. Shoesmith

9:10 AM

(2) BRAITHWAITE, Lindsay

(SUPERVISORS: JJN-3)

"The Effect of H₂O₂ on the Corrosion of Simulated Spent Nuclear Fuel (SIMFUEL)"

EXAMINER 1: François Lagugné-Labarthet

EXAMINER 2: Zhifeng Ding

11:40 AM

(5) TULLY, Claire

(SUPERVISOR: JJN-1)

"INVESTIGATION OF THE PERMEATION OF HYDROGEN IN X65 AND X70 CARBON STEEL"

EXAMINER 1: Yang Song

EXAMINER 2: R. R.H. Martin

9:50 AM

(3) LE, Mandy

(SUPERVISOR: JJN-5)

"Effect of Electrolyte Composition on the Plasma Electrolytic Oxidation Coatings on a Magnesium Alloy"

EXAMINER 1: Keith Griffiths

EXAMINER 2: François Lagugné-Labarthet

12:20 PM

(6) MOHAMMAD, Maryam

(SUPERVISOR: DWS)

"The Effect of Oxygen and Nitrite on the Corrosion of Copper under Nuclear Waste Disposal Conditions"

EXAMINER 1: Jamie J. Noël

EXAMINER 2: Yang Song

10:30 AM COFFEE BREAK—Foyer

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

SSC Room 3018

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule

8:00 AM

N/A

8:40 AM

N/A

9:20 AM

N/A

10:30 AM COFFEE BREAK—Foyer

11:00 AM

(1) LEGGE, Sydney

(SUPERVISOR: FL-L/MSW)

"Probing Surface Chemistry at the Monolayer Level with Polarization Modulation Infrared Reflection-Absorption Spectroscopy"

EXAMINER 1: Joe B. Gilroy

EXAMINER 2: Yang Song

11:40 AM

(2) PARK, Jun-Hyeong

(SUPERVISOR: MSW/PJR/MAK)

"Phosphine Michael Addition to Maleimides for Nanomaterial Modification"

EXAMINER 1: Johanna M. Blacquiere

EXAMINER 2: Joe B. Gilroy

12:20 PM

(3) POWELL, Zachary K.

(SUPERVISOR: JBG-2)

"Extending the π -Conjugation of Boron Difluoride Formazanates via Sonogashira Cross-Coupling"

EXAMINER 1: Mark S. Workentin

EXAMINER 2: Richard (Dick) Puddephatt

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

Room SSC 3022

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule

8:30 AM

(1) JOSEPH, Jenée A.

(SUPERVISOR: VNS)

"CORRECTIVE METHOD FOR DENSITY-FUNCTIONAL CALCULATIONS OF HYPERFINE COUPLING CONSTANTS"

EXAMINER 1: Styliani Constas

EXAMINER 2: Mikko Karttunen

11:00 AM

(5) LY, Malin

(SUPERVISOR: ZD-3)

"Electrochemiluminescence of carbon quantum dots fabricated from folic acid"

EXAMINER 1: Styliani Constas

EXAMINER 2: Lars Konermann

9:10 AM

(2) SZUKALO, Ryan

(SUPERVISOR: SC-2)

"A molecular dynamics investigation on the interplay of hydrophobic and hydrophilic interactions of a macroion in an aqueous droplet"

EXAMINER 1: Viktor N. Staroverov

EXAMINER 2: Mikko Karttunen

11:40 AM

(6) WONG, Jonathan

(SUPERVISOR: ZD-1)

"The Effects of Trivalent Chromium on Single Live Human Bladder Cancer Cells Probed by Scanning Electrochemical Microscopy"

EXAMINER 1: Keith Griffiths

EXAMINER 2: Viktor N. Staroverov

9:50 AM

(3) YE, Xin (Linda)

(SUPERVISOR: MK-1)

"Can Molecular Dynamics Simulations Help Understand Alzheimer's Disease?"

EXAMINER 1: Styliani Constas

EXAMINER 2: Viktor N. Staroverov

12:20 PM

N/A

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

10:30 AM COFFEE BREAK—Foyer

Room SSC 3028

All talks are **15 minutes in length** followed by **2 x 10 minutes of questions from each examiner**.

The student will Chair the talk immediately following their own. The first talk will be chaired by the last presenter of the day. It is the Chair's duty to keep things on schedule.

8:30 AM

(1) WHEATLEY, Mark

(SUPERVISOR: RF/TKS)

"Calibration of Strain in Biotite Using X-ray Diffractometry and Positron Annihilation Spectroscopy"

EXAMINER 1: Martin J. Stillman

EXAMINER 2: Yining Huang

11:00 AM

(4) GILL, Karanpreet

(SUPERVISOR: YH-3)

"Post-synthetic modification, metalation, and characterization of In-fumarate metal-organic frameworks"

EXAMINER 1: Richard (Dick) Puddephatt

EXAMINER 2: Roberta Flemming

9:10 AM

(2) HO, Ryan

(SUPERVISOR: YS/YH)

"Structural Stability of CAU-1 and its Properties for CO₂ Adsorption under Extreme Pressure Studied by in situ Vibrational Spectroscopy"

EXAMINER 1: Mark S. Workentin

EXAMINER 2: Martin J. Stillman

11:40 AM

(5) OLECHNOWICZ, Maya

(SUPERVISOR: YH-2)

"Investigating CO₂ Adsorption and Dynamics in the Metal-Organic Framework ZnAtzOx-MeOH"

EXAMINER 1: Roberta Flemming

EXAMINER 2: John F. Corrigan

9:50 AM

(3) PARTO, Yasan

(SUPERVISOR: TKS)

"Synthesis, Characterization and Optical Properties of ZnS/ZnO Nanocomposites"

EXAMINER 1: Zhifeng Ding

EXAMINER 2: David W. Shoosmith

1:15 PM: CLASS PHOTO — LOCATION: TBA

1:30 PM: LUNCH—Grad Club, Middlesex College

10:30 AM COFFEE BREAK—Foyer