

**WORCESTER POLYTECHNIC INSTITUTE**

May 10, 2022

**To:** The WPI Faculty  
**From:** Mark Richman  
Secretary of the Faculty

The ninth faculty meeting of the 2021-2022 academic year will be held on **Tuesday, May 10, 2022** at 11am via Zoom (join after 10:45am at <https://wpi.zoom.us/j/96760833087> ).

1. Call to Order and Opening Announcements M. Richman
  - Approval of the Agenda
  - Consideration of the Minutes from April 14, 2022
  - Consideration of the Consent Agenda
  - Opening Announcements
  
2. Committee Business:
  - Committee on Academic Operations (CAO) L. Titova
    - May 2022 Undergraduate Student Graduation List
  - Committee on Graduate Studies and Research (CGSR) D. Korkin
    - May 2022 Graduate Student Graduation List
  - Committee on Appointments and Promotions (COAP) G. Iannacchione
  - Committee on Governance (COG) T. El-Korchi
    - Motion to add criteria for promotions in the Professor of Teaching track
    - Motion to add procedures for promotion to (full) Professor of Teaching
    - Motion to modify eligibility and time in rank guidelines for promotion of tenured and tenure-track faculty
  - Committee on Financial and Administrative Policy (FAP) J. Fehribach
  - Committee on Governance (COG) T. El-Korchi
  - Fringe Benefits Committee (FBC) M. Radzicki
    - Motion to endorse a resolution to restore full retirement benefits
  - Committee on Information Technology Policy (CITP) R. Cowlagi
    - Motion to establish the Learning Management System and Video Lecture Support Policy
  - Committee on Graduate Studies and Research (CGSR) M. Demetriou
    - Motion to allow double-counting in the BS/MS program within five years of completing the BS degree at WPI
  
3. Provost's Report W. Soboyejo
  
4. New Business
  
5. Closing Announcements
  
6. Adjournment

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# WORCESTER POLYTECHNIC INSTITUTE

## Faculty Meeting Minutes

April 14, 2022

### Summary:

1. Call to Order - Approval of: Meeting Agenda; Minutes from March 17, 2022; Consent Agenda;
2. Opening Announcements
3. Committee Business: CAP and CAO; CTAF and COG; COAP and COG
4. Special Reports: First Annual COG Report of Faculty Populations – and Faculty Categories
5. President’s Report
6. Provost’s Report
7. Closing Announcements
8. Adjournment

### Detail:

#### 1. Call to Order

The eighth faculty meeting of the 2021-2022 academic year was called to order at 3:15pm via Zoom by **Prof. Richman** (AE). Prof. Richman reminded all those in attendance that the meeting was being recorded for the purpose of accurate minutes. The agenda for the meeting was approved as amended to add opening announcements, and the minutes of the March 17, 2022 meeting were approved as distributed. The consent agenda was approved as distributed. Prof. Richman thanked all those in the academic departments and in faculty governance who did the hard work to prepare the motions in today’s consent agenda.

#### 2. Opening Announcements

**Prof. Richman** (AE) invited all community members to attend the Faculty Honors Convocation on Friday, April 29<sup>th</sup> at 11am with a lunch reception following the ceremony. In addition, with the COG, CTAF, and COAP elections now completed, Prof. Richman encouraged faculty members to respond to the campus-wide email solicitations asking for volunteers to have their names appear on the ballots for the remaining faculty governance committees. In all there are about 20 vacancies and the ballots will include at least two candidates for each vacancy.

**Prof. Strauss** (DIGS) conveyed an invitation to the WPI faculty from the WPI student body to sign an open letter (at <http://divestwpi.wixsite.com/divest-now>) to the Trustees requesting that WPI divest its endowment from fossil fuel investments. Prof. Strauss also indicated that the faculty will soon be bringing forward its own parallel divestiture request for discussion. (See **Addendum #1** on file with these minutes.)

#### 3. Committee Business

##### CAP/CAO

**Prof. Pavlov** (SSPS), on behalf of the Committee on Academic Policy (CAP) and the Committee on Academic Operations (CAO), moved that the WPI “Physical Education Graduation Requirement” be renamed the “Wellness and Physical Education Graduation Requirement.” Prof. Pavlov explained that physical education has evolved to incorporate more than sports and now encompasses wellness defined as holistic health with physical, mental, emotional, spiritual, social, and environmental dimensions. The motion recognizes that we have already implicitly expanded the requirement in this way and will open opportunities for further such expansion. The name change will not affect current distribution requirements. (See **Addendum #2** on file with these minutes.)

**Dir. Harmon** (Dir., PERA) added that the motion is made in response to concerns about wellness that have been prominent this academic year and is consistent with the recommendations of the Mental Health and Wellbeing Task Force. It will emphasize the ongoing expansion of the requirement and the importance we place on our students’ overall wellness.

**Prof. Richman** added that there is an additional related motion in the consent agenda that would make a corresponding change to the prefix of all courses (from PE to WPE) that count toward the newly named requirement.

The motion **passed**.

#### CTAF/COG

**Prof. Mathews** (BBT), on behalf of the Committee on Tenure and Academic Freedom (CTAF) and the Committee on Governance (COG), moved that the probationary periods for tenure-track faculty members who started on the tenure track at WPI in AY21/22 be extended by one year due to hardships associated with the COVID-19 pandemic, and that each faculty member in this group be given the choice to opt out of the extension by providing written notice to the Provost's Office by no later than May 1, twenty-five months before the date that tenure materials would be scheduled to be submitted on their newly extended tenure clock.

**Prof. Mathews** explained that currently probationary faculty members with start dates of AY20/21 or earlier have had an extra year added to their probationary periods, which they can turn down in writing to the provost's office with a deadline of 25 months before their tenure material would be due on the new tenure clock (i.e. 13 months before the materials would be due using the probationary periods). The current motion is to extend the same provision to faculty members who joined the tenure track at WPI in AY21/22. This includes new hires and faculty members who joined the teaching track to tenure this year. The motion recognizes that significant disruptions to professional activities have continued throughout this academic year. (See **Addendum #3** on file with the minutes.)

**Prof. Neamtu** (CS) was in favor of the motion and asked how the opt-out deadline applied to faculty members put on the teaching path to tenure with tenure deliberation years originally set at AY23/24. Prof. Mathews explained that they would need to opt out of the extension by May 1 of this year.

**Prof. Ryder** (BBT) clarified that the motions provide only a one-year extension even for faculty members who have been at WPI through the two-year pandemic.

**Prof. Richman** reminded those in attendance that the Zoom chat is an informal mechanism for questions that will not necessarily be answered by the speaker and will not be recorded in the minutes. He encouraged people to raise their hands to be recognized formally for their questions.

**Prof. Fischer** (RBE) asked for clarification about the opt-out deadline for people who had already gotten probationary period extensions for other reasons not related to COVID. **Prof. Matthews** explained that if the unrelated extension were taken early enough in the probationary period, then the opt-out deadline would be delayed by a year, but if the extension were taken in the last year of the probationary period, then it would be too late to allow for the 25-month opt-out (of the COVID extension) notification.

The motion **passed**.

#### COAP/COG

**Prof. Iannacchione** (PH), on behalf of the Committee on Appointments and Promotions (COAP) and the Committee on Governance (COG), moved that the Faculty Handbook (Part Two: Policies and Operating Procedures; Section 10: Promotion Procedures and Criteria for Non-Tenure-Track Faculty; Subsection B. Promotion to Associate Teaching Professor) be modified to add language requiring the submission of professional associate letters in applications for promotion to Associate Teaching Professor as described in the meeting materials. Prof. Iannacchione explained that the omission of this explicit requirement was not intentional, and this correction makes it clear that professional associate letters are required. This correction also will align this expectation with other promotion criteria and procedures in the Faculty Handbook. (See **Addendum #4** on file with these minutes.)

**Prof. Martin** (MA) asked if the number of required letters was specified anywhere. **Prof. Iannacchione** clarified that six letters are required for the other promotion procedures and criteria, and the same number would be expected in this case.

**Prof. Eggleston** (CEAE) asked if we should be using the term non-tenure-track faculty in the motion or if this should be changed to teaching and research track faculty. **Prof. Iannacchione** indicated that the motion uses the terminology used in the Faculty Handbook.

This motion **passed**.

#### COAP/COG

**Prof. Iannacchione** (PH), on behalf of the Committee on Appointments and Promotions (COAP) and the Committee on Governance (COG), explained that COAP and COG are eager to receive community feedback on three additional draft motions that were distributed with the meeting materials, and he described the urgency in bringing acceptable forms of the motions to the May faculty meeting so that COAP can deal with promotion cases in the affected track during the coming academic year.

**Prof. Iannacchione** indicated that the first motion establishes the criteria for promotion to Associate Professor of Teaching and the criteria for promotion to full Professor of Teaching. The primary goal is to establish criteria that align both with the tenure criteria used for the Professor of Teaching track and with the promotion procedures used for the dual-mission Professor track. The criteria for promotion to Associate Professor of Teaching are the same as the tenure criteria for that track, and this formulation aligns with the expectation that the promotion from Assistant to Associate Professor of Teaching would occur simultaneously with the granting of tenure. The criteria for promotion from Associate to full Professor of Teaching are based on continued growth in teaching practice, professional growth and currency, and service, with an expectation of continued positive external impact and a significant record of service. (See **Addendum #4** on file with these minutes.)

**Prof. Roberts** (BBT) asked whether there were anyone eligible for these types of promotions this coming year. **Prof. Iannacchione** thought that, based on those on the track now, no one could be eligible for both tenure and promotion and was not sure if there were anyone eligible to pursue promotion to full Professor of Teaching. He emphasized, however, that right now there are no criteria, no procedures, and no time-in-rank criteria stated in the Faculty Handbook, and COAP and COG were determined to fill this gap this year.

**Prof. Smith** (IMGD) asked for clarification about existing time-in-rank requirements for promotion to full professor. **Prof. Iannacchione** pointed out that we have a nominal five-year time-in-rank for professors in the dual-mission role, but no language for the professor of teaching. Time-in-rank issues are addressed in the third of the three motions to be discussed.

**Prof. Xiao** (RBE) asked about the criteria for promotion for teaching faculty who are not on the Professor of Teaching track. **Prof. Iannacchione** explained that criteria for promotion of Teaching Professors are fully articulated in the Faculty Handbook and are unaffected by these motions. He emphasized that the promotion criteria for Teaching Professors are totally different than the promotion criteria for Professors of Teaching.

**Prof. Towner** (BUS) asked if it is possible to apply for promotion to full professor without the expectation of obtaining tenure first. **Prof. Iannacchione** indicated that the expectation is that a faculty member would have tenure before applying for promotion to full professor, and this would apply to Teaching Professors who were switched to the tenure track as Professors of Teaching with their tenure clocks set in the new appointment letter.

**Prof. Neamtu** (CS) observed that if the criteria for promotion to Associate Professor of Teaching is the same as the tenure criteria, then applicants for that promotion and for tenure would be submitting the same dossier to both COAP for promotion and CTAF for tenure. **Prof. Iannacchione** explained that it was for this very reason that the

expectation is that promotion to associate Professor of Teaching and the granting of tenure would both be handled by CTAF at the same time, just as it is in the dual mission professor track.

**Prof. Ryder** (BBT) asked what the major differences were between the criteria for promotion for the Professors of Teaching and for Teaching Professors. **Prof. Iannacchione** pointed out that one prominent difference is the expectation of service for Professors of Teaching but not for Teaching Professors. A second prominent difference is that even for the promotion from Assistant to Associate Professors of Teaching, there is some expectation of external impact, whereas for Teaching professors this is not the case.

**Prof. Richman** suggested that the discussion move to the remaining two motions, and he encouraged anyone with suggestions to send them to Prof. Iannacchione or any member of COAP or COG in time to be incorporated in the April 26 two-week notice to be sent for the May 10<sup>th</sup> faculty meeting.

**Prof. Iannacchione** described the second draft motion, which establishes procedures for promotion to full Professor of Teaching in parallel to those for promotion to dual-mission full Professor. The motion describes the dossier to be submitted and the standards against which it will be judged, and it ensures that both are aligned with the corresponding promotion criteria while also allowing for a broad range of evidence of quality, commitment, and impact. The dossier must be amenable to the peer review of professional associates and external referees.

**Prof. Iannacchione** explained that the third motion establishes eligibility and time-in-rank guidelines for promotion of tenured and tenure-track faculty members. Rather than adding new sections, the motion involves a modification of an existing section of Part Two of Faculty Handbook (to be renumbered as from Section 1.D.2 to Section 1.D.3) to ensure that the same language applies to both the Professor and the Professor of Teaching tracks. The goal is to establish minimum time-in-rank expectations (i.e. nominally five years with a minimum of three years at WPI), allow for exceptional achievement to be documented in the nominator's letter, and have credit toward time-in-rank be negotiated at the time of appointment and specified in the letter of appointment. (See **Addendum #4** on file with these minutes.)

**Prof. Richman** and **Prof. Iannacchione** emphasized that the importance of presenting the three draft motions was to solicit further feedback by email and other means beyond the limited time for discussion at today's faculty meeting.

#### 4. Special Reports

##### AY 2021-22 COG Report of Faculty Populations AY2021-22 (and Faculty Categories)

**Prof. Richman** (AE), on behalf of the Committee on Governance, described the newly re-written Appendix D of Part One of the Faculty Handbook (The Roles and Balance of the Faculty in Carrying Out WPI's Mission). The Appendix describes the following institutional goals with respect to the full-time faculty: the faculty will consist of 70 percent tenured and tenure-track dual mission faculty and 30 percent teaching mission faculty; by fall 2023, 40 percent of the teaching mission faculty would be tenured or on the tenure-track and 60 percent would be off the tenure-track. According to the Appendix, each year COG is to give a report to the faculty on the various faculty populations. (See **Addendum #5** on file with these minutes.)

The tenured and tenure-track faculty (TTTF) consist of the dual mission Assistant, Associate, and Full Professors, as well as the Assistant, Associate, and Full Professors of Teaching. The secure teaching faculty (STF) are those on 1-3-3-5+ year contracts hired with the expectation of continuing academic responsibilities. The short-term (or critical need) teaching faculty are those on one-year contracts to fill temporary teaching needs. The important distinction between the STF and the short-term (critical need) teaching faculty is their contract status rather than their titles (which fall into multiple categories of contract status). Finally, research faculty are paid on grant funding and are our Assistant, Associate, and full Research Professors; and others with teaching and research responsibilities are our visiting faculty from other institutions and our post-doctoral scholars.

The “teaching mission faculty” at WPI referred to in Appendix D consists of our Assistant, Associate, and Full Professors of Teaching (part of our TTTF), our secured teaching faculty (STF), and our short-term (critical need) teaching faculty. Currently we have very few short-term critical need teaching faculty.

For academic year 2021-2022, there are 270 dual mission TTT faculty: 102 in Engineering; 142 in Arts and Sciences; 20 in Business; and 6 in the Global School. There are 15 Professors of Teaching: 3 in Engineering; 8 in Arts and Sciences; 0 in Business; and 4 in the Global School. There are 120 secured teaching faculty: 32 in Engineering; 64 in Arts and Sciences; 5 in Business; and 19 in the Global School. So there are 285 (270 plus 15) TTTF, 135 (15 plus 120) teaching mission faculty, and 405 (270 plus 135) total full-time faculty.

Relative to our institutional goals, 66.7 percent (270/405) of our faculty is TTT dual mission, so it would take an additional 45 TTT dual mission faculty (315/450) to get to our goal of 70 percent. Furthermore, our plan to place 3 cohorts of 15 teaching faculty on the teaching track to tenure by fall 2023 would mean that 33.3 percent (45/135) of our teaching faculty were tenured or tenure-track by then, whereas we would need to place 54 (54/135) on the tenure track to reach our goal of 40 percent.

**Professor Smith** (IMGD) asked how adjunct faculty are considered in this ratio on faculty. **Prof Richman** explained that the faculty referred to in Appendix D (and upon which the stated goals are based) are the full-time faculty; therefore, for the purposes of the report required in the Appendix, the adjunct faculty members are not included. However, there are currently 177 adjuncts, which amounts to 59 full-time equivalent (FTE) faculty members. We have the data on how they are distributed across schools, departments, and programs.

**Prof. LePage** (CEAE) asked if there is an institutional goal for adjunct faculty in proportion to full time faculty. **Prof Richman** indicated that because the recent changes involved the full-time faculty only, the institutional goals were established to address the concerns raised at the time about how our newly constituted full-time faculty would be distributed among itself. The issue of how the full-time faculty should compare to the adjunct faculty is a very real concern but it was not addressed at the time in part because our adjunct faculty has delivered about 10 percent of our academic credits and that number has remained fairly constant over time. Prof. Richman agreed that the proportion of full-time to part-time faculty is a matter we can take up formally, as well.

**Prof. Sanbonmatsu** (HUA) would have liked to see the data concerning the adjunct faculty. **Prof. Richman** appreciated the point and indicated that the detailed data concerning adjuncts broken down by schools, departments, and programs was included on slides that he did not show due to time constraints but will be posted with the full presentation on the faculty governance website.

##### 5. President’s Report

**President Leshin** thanked all our faculty members and especially colleagues in Physical Education, Recreation, and Athletics (PERA) for addressing the well-being of our students by broadening the physical education graduation requirement. The President is also aware that CASL and other faculty governance committees are continuing to work methodically on the general issue of student wellbeing.

**President Leshin** also announced that V.P. Morton, who has been a great partner over the past 11 years, will be transitioning out of the university and will return to supporting private sector K-12 and higher education. Her position will be eliminated. MarComm and Enrollment Management will now report directly to the interim President. Strategic Initiatives and University Analytics will move into the CFO’s organization. Kyle Siegel will become AVP and Chief of Staff and continue working in the President’s office and with the Board. She also announced that on April 8, the Board voted to appoint Bill Fitzgerald ('83) as the new Chair of the Board, effective immediately. President Leshin was optimistic that we would all enjoy working with him in the future.

**President Leshin** added that due to a conflict in May, today’s meeting will be her last faculty meeting as WPI President. President Leshin expressed her admiration and respect for the WPI faculty in action, especially for its work

with our students. Finally, President Leshin asked everyone to do all they can to support Provost Soboyejo in his role as interim president, and she hoped to have opportunities to thank many of the faculty in person.

#### 6. Provost's Report

**Provost Soboyejo**, on behalf of the faculty, expressed appreciation to President Leshin for all she has done for WPI. For him, it has been a pleasure to work with President Leshin and he looked forward to celebrating her accomplishments as she moves to her next position.

**Provost Soboyejo** was amazed to watch the faculty in action today. He thanked Prof. Richman and Prof. Iannicchione, in particular, for bringing forward the motions related to promotions and for thinking so deeply about the implications of the changes that have been made within our faculty. Provost Soboyejo was touched by Dir. Harmon's work with Prof. Pavlov and Prof. Titova on the adjustments made to treat our students' wellbeing in a more holistic manner. He was optimistic that such an approach will permit us to overcome our challenges as we move past the current academic year.

**Provost Soboyejo** then explained that the community had spoken clearly about the best short-term choice for WPI during the transition, and as a result he introduced Dean Heinricher as the Interim Provost for the next academic year. **Prof. Heinricher** (UGS) thanked the faculty for getting through a tough time and reminded the community that we are very good at what we do. He quoted a student who described WPI as special because it is very competitive place, but where we compete with important problems and not with each other.

**Provost Soboyejo** also announced that Prof. Gericke will serve as Interim Dean of Undergraduate Studies. **Prof. Gericke** (CBC) thanked the Provost for trusting him with the position. He expressed his admiration for Dean Heinricher's work as Dean of Undergraduate Studies for over a decade, and he promised to do his best to keep the trains moving.

**Prof. Richman** congratulated Dean Heinricher, Prof. Gericke, and President Leshin on their new positions.

#### 7. Closing Announcements

**Dean Snoddy** encouraged all faculty members to order regalia through the campus bookstore. Graduate student commencement is on Thursday, May 12<sup>th</sup> and undergraduate commencement is on Saturday, May 14<sup>th</sup>. Dean Snoddy also announced that GradFest - on Friday, April 22 (on Project Presentation Day) from 6 to 9pm in the Odeum - will be an opportunity for students, staff, and faculty to socialize as the term ends.

#### 8. Adjournment

**Prof. Richman** thanked everyone who contributed to the many moving parts of today's meeting, and he anticipated that the May 10 faculty meeting will be packed with related and additional items of business. Prof. Richman observed that despite difficult circumstances and extreme time demands, faculty governance continues to function well and is headed towards a productive conclusion to the academic year.

The meeting was adjourned at 4:48pm.

Respectfully submitted,

Mark W. Richman  
Secretary of the Faculty

#### **Addenda on file with these minutes:**

- Addendum #1 - Sign WPI Student Divestment Letter - Minutes 4-14-22
- Addendum #2 - CAP-CAO Motion for Wellness and Physical Education - Minutes 4-14-22
- Addendum #3 - CTAF Motion to Extend Probationary Periods - Minutes 4-14-22
- Addendum #4 - COAP Motions for Promotion Criteria and Procedures - Minutes 4-14-22
- Addendum #5 - COG Annual Report on Faculty Populations AY21-22 - Minutes 4-14-22



**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Academic Operations (Prof. Titova, Chair)

**Re:** Motion to approve the May 2022 undergraduate student graduation list

**Motion:** The Office of the Registrar reports that the following candidates have either completed all the requirements for the degree designated in the department or program indicated or are expected to complete their degree requirements before May 14, 2022. They therefore are or will be eligible to receive that degree, and on behalf of the Committee on Academic Operations, I move that – pending final verification by the Registrar that all those on the list have in fact completed their degree requirements – they be approved for May 14, 2022 graduation.

### **Bachelor of Arts Degree**

#### **Environmental and Sustainability**

##### **Studies:**

Tess Flaherty  
Sabine Garcia  
Hailey Hurrell  
Minor: Psychology  
Caroline Jaeger  
Julia Jankowski

Janelle Knight  
Kaamil Lokhandwala  
Sophia Marcus  
Hannah Miller  
Visual Art Concentration  
Oliver Rayner  
Design Concentration  
Katrina Rifenburg  
Joy Tartaglia  
Visual Art Concentration

#### **Interactive Media and Game Development:**

Owen Aguirre  
Charles Baldwin  
Minor: Computer Science  
Hannah Belan  
Visual Art Concentration  
Stanley Cliche  
Minor: Mathematics  
Terry Deng  
Technical Art Concentration  
Jasmine Duerk  
Daniel Enriquez  
Writing Concentration  
John Frazia  
Design Concentration  
Hannah Goodsell  
Minor: Psychology  
Caroline Grella  
Minor: Computer Science  
Anne Higgins  
Design Concentration  
Morgan Jones

### **Bachelor of Science Degree**

#### **Actuarial Mathematics:**

Jane Cohen  
Minor: Data Science  
Lexi Ferrini  
Alison Lambert  
Kieran Lee  
Minor: Business  
Angela Quackenbos  
Minor: Data Science  
Donovan Robillard

#### **Aerospace Engineering:**

Akul Agarwal  
Minor: Mechanical Engineering  
Matthew Barrett  
Kirsten Bowers  
Minor: Electrical and Computer  
Engineering  
Antonio Calcagni

**Aerospace Engineering cont.:**

Leila Card  
 Christian Chadwick  
 Olivia Chiasson  
 Abigail Collins  
 Dakota Cross  
 Adrienne Curtis  
 Christopher Davenport  
 Ethan Davis  
 Phillip Durgin  
 Benjamin Englis  
 Jake Franklin  
     Minor: Mechanical Engineering  
 Jeremy Gagnon  
 Paul Golias  
 Anthony Gosselin  
 Mason Handy  
 Alex Harrigan  
 Nicolas Hesel  
     Minor: Computer Science  
 Alex Hodge  
 Tyler Hunt  
 David Ibrahimi  
 Jordan Jonas  
 Veronika Karshina  
 John Kerwin  
 Meenakshi Kodali  
 Theresa Larson  
 Johnathan Lazo  
 Tyler Lizotte  
 Joshua Martin  
 Daniel Mattison  
 Harrison Mazur  
 John McCarthy  
 Connor Miholovich  
 Vincent Mitala  
 Troy Otter  
 Yuvraj Pathania  
 Samuel Pitkowsky  
 Bethany Ramsbottom  
 Thomas Rau  
 Martin Runquist  
     Minor: Materials  
 Daniel Santamaria-Hopkins  
 Justin Schoepke

John Sirois  
     Minor: Business  
 Harrison Smith  
 Zachary Sotland  
 Guilherme Sperotto  
 Jonathan Stern  
     Minor: Chemistry  
 Drake Tierney  
 David Tomer  
     Minor: Manufacturing Engineering  
 David Van Sickle  
 Andrew Ventura Molina  
 Connor Walsh  
     Minor: Astrophysics  
 Samuel Waring  
 Sidney Williams  
     Minor: Business  
 Bridget Wirtz

**Applied Physics:**

Mingsi Hu  
 Michael Laemmler  
 Samuel Skinner  
     Minor: Chemistry  
     Minor: Nanoscience

**Architectural Engineering:**

Katherine Bishop  
     Minor: Environmental and Sustainability  
     Studies  
 Kimberly Coudrey  
 Madison Di Vico  
 Hannah Hirsch  
     Minor: Media Arts  
 Darius Luo  
     Minor: Sustainability Engineering  
 Kathleen Morrison  
 Dominick Timpanaro  
 James Valentine  
 Lara Varjabedian  
     Minor: Sustainability Engineering  
 Erin Venard  
     Minor: Sustainability Engineering  
 Hannah Whitney  
     Minor: English

**Biochemistry:**

Sean Amberger  
Jacob Arciszewski  
Sean Burns  
Burnon Chen  
Meredith Gauthier  
Lauren Guerrero Negrón  
Minor: Global Public Health  
Liza Hote  
Minor: Global Public Health  
Rachel Maurice  
Connor Norton  
Minor: Biology  
Jacqueline Novak  
Silvana Reid  
Kathryn Rodriguez  
Marina Spenciner  
Sara Stillings  
MacKenzie Sullivan  
Kiran Tremblay  
Jordan Wynn  
Minor: Spanish

**Bioinformatics and Computational  
Biology:**

Emily Baker  
Eric Bormann  
Jules Cazaubiel  
Maia Grant  
Samantha Mora  
Justin Moy  
Emily Musser  
Adrian Orszulak  
Aidan Pecorale  
Julia Tatone  
Nicholas Tourtillott  
Stokley Voltmer

**Biology and Biotechnology:**

Sydney Atkinson  
Minor: Environmental and Sustainability  
Studies  
Kylie Belanger  
Minor: Global Public Health

Eric Bormann  
Minor: Bioinformatics and Computational  
Biology  
Megan Brady  
Erin Bryan  
Minor: Environmental and Sustainability  
Studies  
Minor: History  
Emily Cimino  
Minor: Global Public Health  
Emily Deberadinis  
Minor: Global Public Health  
Sarah Doherty  
Kathleen Duffy  
Tess Flaherty  
Dawn Frederick  
Sabine Garcia  
Brigid Griffin  
Emma Hartzel  
Marine Herman  
Allison Hershoff  
Sarah Jones  
Minor: Business  
Kathryn Kenney  
Megi Kola  
Jack Kruse  
Van Le  
Kelly Makechnie  
Samantha Marcil  
Minor: Psychology  
Jagruthi Maraju  
Catherine Masiello  
Minor: Biochemistry  
Daniel Mbusa  
Rachel McBrine  
Adelaide McFarland  
Minor: Spanish  
Julia Milks  
Minor: Global Public Health  
Zane Molins  
Emily Musser  
Cristian Nunez  
Abigail O'connor  
Adrian Orszulak  
Rianna Ray  
Minor: International and Global Studies

**Biology and Biotechnology cont.:**

Tracy Rhode  
Kathryn Rodriguez  
Amanda Schnapp  
Minor: Chemistry  
Ryan Smith  
Minor: Bioinformatics and Computational  
Biology  
Michaela Sorrento  
Alexandra Wall  
Minor: Biochemistry  
Kailana Wang  
Minor: Bioinformatics and Computational  
Biology  
Rebecca Whittier

**Biomedical Engineering:**

Bishoy Abdelmalek  
Emily Adams  
Minor: Chemistry  
Anthony Algeri  
Lindsay Ambrosino  
Emma Bailey  
Lexi Baker  
Ashley Baldwin  
Nelson Barnett  
Ranya Basma  
Minor: Global Public Health  
Cecilia Berniac  
Aman Bhatti  
Hannah Borges  
Minor: Mechanical Engineering  
Blake Bragaw  
Biomechanical Concentration  
Andrew Brooks  
Minor: Mechanical Engineering  
Hannah Brooks  
Minor: Psychology  
Elizabeth Brousseau  
Jennifer Brownell  
Mia Buccowich  
Henry Buda  
Hannah Burke  
Emma Burkhardt  
Minor: Mechanical Engineering

Victoria Carreiro  
Minor: Mechanical Engineering  
Matthew Casserly  
Minor: Spanish  
Camila Cavalcanti Bezerra M Carvalho  
Lynsa Chau  
Minor: Bioinformatics and Computational  
Biology  
Colton Chung  
Isabelle Claude  
Julianna Cognetta  
Rosina Comatas  
James Copeland  
Lily Cordner  
Minor: Bioinformatics and Computational  
Biology  
Natasha Cruz-Calderon  
Mathiew Daniels-Diehl  
Winona Daw  
Maria Decelles  
Neeraj Dodda  
Cosette Domkofski  
Minor: Psychology  
Nathan Draudt  
Minor: Computer Science  
Meredith Eddy  
Minor: Chemistry  
Chongyuan Feng  
Biomechanical Concentration  
Sawyer Fenlon  
Angela Ferro  
Minor: Mechanical Engineering  
Lilarose Forsyth  
Emma Fountain  
Alexandra Gannon  
Minor: Materials  
Katrina Garrow  
Mickaela Gunnison  
Ali Guthrie  
Dina Habboosh  
Minor: Electrical and Computer  
Engineering  
Evan Hallberg  
Layal Hamze  
Benjamin Hanemann  
Sammy Hankaoui

**Biomedical Engineering cont.:**

Lauren Hardy  
Biomechanical Concentration  
Edward Hay  
Sydney Hertel  
Samuel Hopkins  
Rui Hou  
Nathan Hyde  
Morgan Jones  
Alex Kalmar-Gonzalo  
Minh Anh Kieu  
Minor: Bioinformatics and Computational  
Biology  
Owen Lally  
Samuel Losh  
Sarah MacDonald  
Minor: Mechanical Engineering  
Dana Maloy  
Marisa Maltais  
Daniel Marsh  
Lydia Masse  
Hailey McCasland  
Brianna McCuaig  
Minor: Biology  
Keri McLaughlin  
Jeffrey Mei  
Minor: Mechanical Engineering  
Lucas Micheels  
Rositsa Mihaleva  
Minor: Spanish  
Minor: Mechanical Engineering  
Gillian Miller  
Emily Minch  
Minor: Electrical and Computer  
Engineering  
Minor: Mechanical Engineering  
Karina Mirochnik  
Brianna Mulloy  
Minor: Spanish  
Lonna Neidig  
Jessica Netto  
Minor: Business  
Alexis Nichols  
Claire Nicolas  
Alex Nieto

Sophia Noel  
Minor: Mechanical Engineering  
Monika Nowak  
Minor: Industrial Engineering  
Katherine O'leary  
Biomechanical Concentration  
Julia Ormerod  
Minor: Electrical and Computer  
Engineering  
Eliana Palumbo  
Taylor Paradis  
Brooklynn Paris  
Savannah Parker  
Minor: Biology  
Olivia Petropulos  
Isaac Petruzzello  
Emily Philbrook  
Sarah Piela  
Kevin Piskorowski  
Minor: Physics  
Miranda Pitta  
Amber Poulin  
Melanie Presseau  
Sophia Puch  
Shreya Puttagunta  
Nicole Racca  
Sierra Raskevitz  
Samantha Raskind  
Michael Reilly  
Desiree Rivas  
Rose Romanos  
Minor: Mechanical Engineering  
Katherine Rosivach  
Katelin Rudnik  
Minor: Mechanical Engineering  
Emily Sansoucy  
Minor: Materials  
Timothy Santos-Heiman  
Corinne Saucier  
Minor: Business  
Miriam Sayegh  
Azka Siddiq  
Minor: Chemistry  
Zachary Siders  
Allison Smith  
Camren Smith

**Biomedical Engineering cont.:**

Meagan Smith  
Chris Son  
Kirsten Stevens  
Siri Sundaraneedi  
Stephanie Tam  
Kiran Tremblay  
Isabella Troop  
Vanessa VanDeMark  
Mia Velletri  
Minor: Chemistry  
Juan Villamizar  
Nicholas Weiland  
Adrienne Whitney  
Blake Wofford  
Minor: Chemistry  
Mazen Yatim

**Business:**

Ahmed Alhejaili  
Jessica Evans  
Business Analytics Concentration  
Callan Moriarty  
General Business Concentration  
Andrew Nicklas  
Financial Technology Concentration  
Minor: Data Science  
Malvina Piziak  
Theodore Solomonides  
Custom Concentration for Business Major

**Chemical Engineering:**

Julia Awad  
Minor: Drama/Theatre  
Michael Berwanger  
Ryan Bettencourt  
Kavim Bhatnagar  
Michael Biando  
Robert Blythe  
Julia Bryant  
Makayla Carmichael  
Evy Case  
Environmental Concentration  
Gabriella Cerbo  
Andrew Charlebois  
Sophie Chase

Jason Chen  
Isabelle Chi  
Gabriela Chong  
Avery Cirincione-Lynch  
Evan Costa  
Liam Cox  
Brian Desjardins  
Katherine Doucette  
Minor: Drama/Theatre  
Jillian Doyle  
Andrew Dupuis  
Thomas Dziechciarz  
Minor: Sustainability Engineering  
Sam Elaskalani  
Patrick Flaherty  
Osasumwen Fredrick-Ilekuoba  
Energy Concentration  
Ceana Fuller  
Environmental Concentration  
Sydney Gagne  
Biological Concentration  
Jay Gandhi  
Biological Concentration  
Achilles Gatsonis  
Olivia Gedgudas  
Reshawn George  
Emily Gonzales  
Abigail Goyette  
Hailey Hanscom  
Alexandra Harrison  
Biological Concentration  
Minor: Bioinformatics and Computational  
Biology  
Rayna Harter  
Environmental Concentration  
Kimberly Hazeltine  
Katarina Himmelberger  
Minor: Environmental and Sustainability  
Studies  
Sydney Horton  
Luca Ialongo  
Minor: Mechanical Engineering  
Minor: Drama/Theatre  
Eduardo Italiani  
Jonathan Jironvil  
Alex Kelleher

**Chemical Engineering cont.:**

Timothy Kendall  
Minor: Business  
H La Vallee  
Christopher LaFortune  
John Laukaitis  
Energy Concentration  
Meng Lian  
Caran Kate Manalo  
James Marlow  
Leslie Mateo  
Gaby Mazzoni  
Kim Mori  
Biological Concentration  
Emma Mungovan  
Minor: Business  
Karla Navarro  
Materials Concentration  
Brendan Olexa  
Andrew Panneton  
Emma Paxton  
Biological Concentration  
Taylor Petell  
Biochemical Concentration  
Marina Petrillo  
Elia Petros  
Isabella Piccione  
Rylee Pinsonneault  
Minor: Business  
Eileen Piombino  
Materials Concentration  
Alex Poll  
Charles Pottow  
Antonio Ramirez  
Lauren Revene  
Biological Concentration  
Jeremy Rhines  
Grace Richards  
Patrick Roche  
Meghan Sailer  
Jared Santerre  
Bruno Schardong  
Muntasir Shahabuddin  
Energy Concentration  
Jillian Shimansky  
Minor: Business

Ashli Silvera  
Minor: Spanish  
Adam Strohm  
Kat Tarantino  
Emily Toala  
Danielle Upton  
Minor: Business  
Julia Visconti  
Colin Wandell  
Alyssa Whitley  
Biological Concentration  
Hunter Wieckowski  
Matthew Willis  
Andrew Yatsunami  
Minor: Biochemistry  
Ciara Young

**Chemistry:**

Ahmed Alhejaili  
Marissa Allegranza  
Michael Berwanger  
Angel Fernandez Sorondo  
Isabella Ferrari Carrubba  
Michelle Frasca  
Jonathan Jironvil  
Isabelle Rhodes  
Margaret Richins  
Ariadna Rivas-Souchet  
Minor: Data Science  
Jonathan Stern  
Hana Tabit  
Sebastian Tommasi  
Minor: Business

**Civil Engineering:**

Evan Andrzejewski  
Braden Ballard  
Benjamin Beliveau  
Environmental Concentration  
Stephanie Bishop  
Tyler Cierpich  
Peter Conroy  
Charles Considine  
Joseph Coutcher  
William Crist  
Lisa Cristiano

**Civil Engineering cont.:**

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Bryan Davidson  
Jeffrey Desjardins  
Daniel Divecchia  
Morgan Emery  
Minor: Arabic Studies  
Fernand Gay  
Peyton Graham  
Drew Grenier  
Environmental Concentration  
Justin Hines  
Edie Hudson  
Colby Jensen  
Minor: Business  
Rhys Christian Kalama  
Minor: Business  
Heather Lohrey  
Joseph MacDonald  
Skylah Mahon-Dixey  
Zoe Mahoney  
Isabelle Mellor  
Rose Noggle  
Logan O'Donnell  
John Parenteau  
Matthew Penkala  
Julie Pham  
Kiersten Potts  
Environmental Concentration  
Igor Reis  
Andrew Salvatori  
Alexandra Scariati  
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Minor: Business  
Ethan Schock  
Jonathan Scribner  
Maximilian Storch  
Minor: Business  
Joshua Thomas  
Madelyn Uryase  
Minor: Fire Protection Engineering  
Avery Vreeland  
Marshall Watts  
Ian Weston  
Kade Woolverton  
Joe-Yee Yip

**Computer Science:**

Matthew Aguiar  
Minor: Interactive Media and Game  
Development  
Isabel Alvarado Blanco Uribe  
Veronica Andrews  
Ryan Astor  
Minor: Data Science  
Brennan Aubuchon  
Minor: Interactive Media and Game  
Development  
Emily Austin  
Jack Ayvazian  
Benjamin Babalola  
Jake Backer  
Cyber Security Concentration  
Nathan Bargman  
Sean Barry  
Eli Benevedes  
Ryan Birchfield  
Luke Bodwell  
Tyler Bouwens  
Minor: Data Science  
Collin Broderick  
Minor: Data Science  
Eva Bruklisch  
Alexis Caira  
Minor: Data Science  
Theodore Campbell  
Noah Capucilli-Shatan  
Edward Carlson  
John Carroll  
Minor: Chinese Studies  
Maddison Caten  
Marcus Chalmers  
Elaine Chen  
Felix Chen  
Yang Chen  
Errica Cheng  
Minor: Management Information Systems  
Dyllan Cole  
Nicole Conill  
Minor: Law and Technology  
Cyber Security Concentration  
Devin Coughlin  
Minor: Chinese Studies



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Adrian Curlless  
Minor: Electrical and Computer  
Engineering  
Noah Darveau  
Jason Davis  
Lia Davis  
Syreneti Delacruz  
Lorenzo DeSimone  
Jasmine Duerk  
Praise Eteng  
Tian Yu Fan  
Caleb Farwell  
Minor: Mechanical Engineering  
Andrew Fernandes  
Lucas Fernandes  
Minor: Data Science  
Tyler Ferrara  
Kaitlyn Fichtner  
Mark Forte  
Brett Foster  
Minor: Electrical and Computer  
Engineering  
Alexa Freglette  
Cyber Security Concentration  
Maylee Gagnon  
Bryan Gass  
Luke Gebler  
Carley Gilmore  
Liam Jyn Godin  
Paloma Gonzalez Galvez  
Samantha Gould  
Minor: Robotics Engineering  
Suryansh Goyal  
Peyton Grant  
Victoria Grasso  
Christopher Guerrette  
Madeline Halley  
Lauren Hatfield  
Alan Healy  
Minor: Mathematics  
Cory Helmuth  
Karen Hou  
Patrick Houlihan  
Matthew Hurlbut-Coke

Neville Ingram  
Sean Jan  
Minor: Data Science  
Matthew Johannesen  
Nicholas Jurovich  
Ido Katz  
Minor: Business  
Mason Kaye  
Madyson Kelly  
Filip Kernan  
Alexander Kinley  
Nathaniel Klingensmith  
Minor: Interactive Media and Game  
Development  
Aaron Krueger  
Aditya Kumar  
Jadon Laforest  
Minor: Interactive Media and Game  
Development  
Michael Lai  
Cyber Security Concentration  
Morgan Langstaff  
Truman Larson  
David Leandres  
Morgan Lee  
Alek Lewis  
Bryan Lima  
Minor: Interactive Media and Game  
Development  
Katie Lin  
Minor: Media Arts  
Evan Llewellyn  
Minor: Data Science  
Christopher Lobo  
Kaamil Lokhandwala  
Sarah Lombardi  
Tyler Looney  
Lorenzo Lopez  
Cyber Security Concentration  
Winnie Ly  
Yang Lyu  
Emily Mahoney  
Pradnya Mahurkar  
Minor: Business  
Matthew Malone  
Robear Mankaryous

**Computer Science cont.:**

Sarah McCarthy  
Timothy McCarthy  
Minor: Electrical and Computer  
Engineering  
Joshua McKeen  
Connor McLaughlin  
Veronica Melican  
Kyle Mikolajczyk  
Victoria Mirecki  
Justin Mitchell  
Sean Morrissey  
Sullivan Mulhern  
Cyber Security Concentration  
Reilly Norum  
Minor: Data Science  
Patrick O'Mullan  
Mairead O'Neill  
Matthew Olson  
Noah Olson  
Gwyneth Ormes  
Amy Orozco  
Michael Osei  
Hezi Owuor  
Ashwin Pai  
Trevor Paley  
Aidan Pecorale  
Johvanni Perez  
Minor: Data Science  
Madeline Perry  
Minor: Interactive Media and Game  
Development  
Hoang Phan Pham  
Edward Philipppo  
Minor: Data Science  
Jean-Luc Pierre-Louis  
Jared Poulos  
Benjamin Robinson  
Jonathan Rosenbaum  
Michael Rossetti  
Minor: Business  
Garett Ruping  
Maria Del Carmen Sacristan-Benjet  
Ilyas Salhi  
Joseph Scheufele

Eric Schmid  
Minor: Business  
Ashley Schuliger  
Minor: Data Science  
Erich Schwarzrock  
Matthew Selva  
Andrew Shanaj  
Alexander Simoneau  
Cyber Security Concentration  
Lindberg Simpson  
Kate Sincaglia  
Minor: Spanish  
Avery Smith  
Cyber Security Concentration  
Zhecheng Song  
Matthew Spofford  
Adrianna Staszewska  
Benjamin Staw  
Ryan Stebe  
Minor: Interactive Media and Game  
Development  
Daniel Stusalitus  
Saniya Syeda  
Gus Teran  
Oliver Thode  
Jarius Thomas  
Shannon Truong  
Conrad Tulig  
Nicholas Vachon  
Carlos Velasquez  
Minor: Interactive Media and Game  
Development  
Christopher Vieira  
Minor: Robotics Engineering  
Matthew Vindigni  
Yonghua Wang  
Lauren Wasserman  
Haowen Wei  
Yoni Weiner  
Michael Wenning  
Ryan Wheeler  
Minor: Mathematics  
Andrew Whitney  
Roman Wicky Van Doyer  
Adraesteia Wong  
Minor: German

**Computer Science cont.:**

Matthew Worzala  
Jingyu Xie  
William Yang  
Ziqian Zeng  
Minor: Data Science  
Ke Zhao  
Zaiyang Zhong

**Data Science:**

Ardavasd Ardaldjian  
Jacob Bissonette  
Maddison Caten  
Kyle Costello  
Olajumoke Jackson  
Nicholas Jurovich  
Eva Labbe  
Kaustubh Vivek Pandit  
Minor: Business  
Minor: International and Global Studies  
Hoang Phan Pham  
Brian Phillips  
Philip Rago  
Bailey Schmidt  
Minor: Computer Science  
Kate Sincaglia  
Adrianna Staszewska  
River Yan  
Minor: Computer Science  
Xizhao Zhang

**Economic Science:**

Rosalyn Bates  
Minor: Data Science

**Electrical and Computer Engineering:**

Dianjenis Abreu  
Minor: Latin American and Caribbean  
Studies  
Andreas Ake Akesson  
Nisreen Aljumaili  
Lindsay Ambrosino  
Kenneth Armijo  
Michael Bedard  
Emily Bubencik  
Evan Buckley

Arden Carling  
Minor: Computer Science  
Peter Catalino  
Jenna Charron  
Minor: Business  
Manjusha Chava  
Alexander Corey  
Xavier Curney  
Hailey Delphia  
Jonathan Ferreira  
Maya Flores  
Brett Foster  
Emma Fountain  
Anthony Galgano  
Joshua Geyster  
Peyton Grant  
Benjamin Guerriero  
Minor: Robotics Engineering  
Jorgo Gushi  
Minor: Mechanical Engineering  
Isabel Herrero Estrada  
Minor: Management Information Systems  
Minor: Data Science  
Dorian Isidore  
Muhaimin Islam  
Noelle Johnson  
Madeline Kasznay  
Ryan Keegan  
Shamiha Khan  
Alexander Kobsa  
Minor: Astrophysics  
Aditya Kumar  
Deep Kumar  
Benjamin Larkin  
Tyler Larson  
Zach Le  
Giahuy Lenguyen  
Minor: Data Science  
Timothy Lewis  
Wenting Li  
Minor: Interactive Media and Game  
Development  
Anthony Macrina  
Kevin Mbogo  
Martin McCormack

**Electrical and Computer Engineering  
cont.:**

Victor Mercola  
Minor: Music  
Justin Mitchell  
Alex Mondro  
Minor: Computer Science  
Joseph Murray  
Samuel Ng  
Tom Nurse  
Vibhuti Pathare  
Minor: Chemistry  
Matthew Plympton  
Devon Poisson  
Kevin Ramos  
Joshua Reeder  
Thomas Riviere  
Evan Sauter  
Dawson Scheid  
David Schwartz  
Minor: Physics  
Anna Shi  
Nadia Singh  
Joshua Smith  
Colin Stevens  
Donovan Tames  
Minor: Mechanical Engineering  
Jack Tatirosian  
Erin Thibeault  
Alexander Thurley  
Ryan Tougas  
Tramy Truong  
Jonathan Valsamis  
Haowen Wei  
Maxwell Westreich  
Minor: Business  
Herbie Wolff  
Liam Ariel Wolozny Gomez Robelo  
Logan Young  
Gwyneth Zelmanow  
Shangjin Zhong

**Environmental Engineering:**

Benjamin Beliveau  
Natalie Bennett  
Kaelyn Foss

Kimberly Frary  
Maxwell Lepage  
Caran Kate Manalo  
Meghan McCudden  
Evelyn Mortimer  
Madison Rutherford  
Minor: Materials  
Lillian Taylor  
Delaney Tedtsen  
Minor: Gender, Sexuality and Women's  
Studies  
Rachael Zmich  
Minor: Sustainability Engineering

**Humanities and Arts:**

Nathan Bargman  
Talya Feldman  
Braden Foley  
Mason Kaye  
Drama/Theatre Concentration  
Adraesteia Wong

**Industrial Engineering:**

Nada Abojaradeh  
Enzo Borges  
Clarissa Casilla Luzardo  
Minor: Business  
Anne Davis  
Nickalas Dinatale  
Lauren Dishong  
Minor: Business  
McKenna Finken  
Grace Gately  
Hannah Gelman  
Erin Gonzalez  
Minor: Mathematics  
Kaelyn Hicks  
Zoe Januszewski  
Caitlin Kuzma  
Minor: Data Science  
Michael Levene  
Minor: Business  
Jon Merchan  
Abigail Perlee  
Margaret Reiter  
Marissa Thomas

**Industrial Engineering cont.:**

Mason Watts-Rich  
Minor: Computer Science  
Nicole Whipkey  
Minor: Mathematics

**Interactive Media and Game Development - Technology:**

Emily Austin  
Duncan Bertetti  
Luke Bodwell  
Noah Darveau  
Mariko Endo  
Minor: Management Information Systems  
Minor: Computer Science  
Andrew Fernandes  
Nicolas Fish  
Minor: Computer Science  
James Flynn  
Paloma Gonzalez Galvez  
Matthew Johannesen  
Matthew Selva  
Zhecheng Song  
Tyler Sprowl  
Joy Tartaglia  
William White  
Jingyu Xie

**Interdisciplinary:**

Isabelle Cordova  
Minor: Psychology  
Brittany Henriques  
Rose McGovern  
Rose Noggle  
Seneca Warren

**International and Global Studies:**

Emily Baker  
Kiersten Potts

**Management:**

Eli Ruffa  
Minor: International Studies

**Management Engineering:**

Joshua Alasso  
Operations Management Concentration  
Ethan Bae  
Operations Management Concentration  
Frank D'Alessio  
Operations Management Concentration  
Austin Franklin  
Custom Concentration for MGE Major  
Kaija Gisolfi-Mccready  
Biomedical Engineering Concentration  
Mackenzie Goldschlager  
Custom Concentration for MGE Major  
Tyreese James  
Mechanical Engineering Concentration  
Bridgette Paredes  
Operations Management Concentration  
Allison Spratt  
Operations Management Concentration

**Management Information Systems:**

Augustine Asumadu  
Angel Beltre  
Cady Diehl  
Minor: Computer Science  
Lucas Fernandes  
Zachary Harris  
Natalie Mohn  
Alexander Young

**Mathematical Sciences:**

William Aaron  
Kwabena Adwetewa-Badu  
Ronan Banavige  
Em Beeler  
Minor: Computer Science  
Kayla Fabry  
Minor: Data Science  
Anna Fitzpatrick  
Molly Folino  
Neville Ingram  
Bhanuj Jain  
Sean Jan  
Agathe Lasnier  
Minor: Philosophy and Religion  
Samuel Leonard

**Mathematical Sciences cont.:**

Matthew Levine  
Claire Lungwitz  
Minor: Computer Science  
Yang Lyu  
Grace Malabanti  
Minor: Arabic Studies  
Victoria Mirecki  
Gwyneth Ormes  
Larson Ost  
Minor: Physics  
Emma Pollock  
Minor: Data Science  
Georgina Quinn  
Ally Salvino  
Minor: Computer Science  
Joseph Scheufele  
Ashley Schuliger  
Avery Smith  
Juliette Spitaels  
Minor: Data Science  
Laura Staugler  
Tom Strow  
Marissa Thomas  
Daniil Volkov  
Yonghua Wang  
Yonglong Zhan

**Mechanical Engineering:**

Jacqueline Aaron  
Jesulona Akinyele  
Nisreen Aljumaili  
Ben Amado  
Razan Andigani  
Aaron Andrade  
Ezekiel Andreassen  
Anthony Arace  
Mechanical Design Concentration  
Michael Arbore  
Minor: Manufacturing Engineering  
Blake Audibert  
Jessica Babcock  
Samantha Barakian  
Minor: Manufacturing Engineering  
Katelyn Barron  
Raymond Beazley

Amber Beliveau  
Samuel Bello  
Minor: Business  
Minor: Manufacturing Engineering  
Liam Benjamin  
John Benoit  
Marika Bogdanovich  
Minor: Materials  
Sydney Borrello  
Patrick Bowles  
Minor: Materials  
Meghan Brady  
Minor: Materials  
Blake Bragaw  
Eli Breitbart Frischling  
Minor: Mathematics  
Grete Bressner  
Elliana Budri  
Biomechanical Concentration  
Lucas Buermeyer  
Katherine Burkes  
Adele Burton  
Joseph Calcasola  
Minor: Data Science  
Charles Carlo  
Raymond Carter  
Emilia Casagrande  
Anna Catlett  
Gabriella Cervone  
Zachary Chapins  
Mostafa Chehadeh  
Minor: Manufacturing Engineering  
Steven Chelak  
Ruchita Choksey  
Kathleen Cochran  
Dylan Connors  
Minor: Business  
Michael Cuddy  
Mechanical Design Concentration  
Matteo Cugno  
Minor: Business  
Conor Daly  
Minor: Sustainability Engineering  
Siddhant Damle  
Minor: Aerospace Engineering  
Cheyenne Day

**Mechanical Engineering cont.:**

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Minor: Manufacturing Engineering  
Sonya DeLorie  
Sarah DeMaio  
Mechanical Design Concentration  
Ella Deane  
Mary Decelles  
Lanna Delaney  
Brian Desjardins  
Braeden Desmonts  
Minor: Aerospace Engineering  
Elizabeth DiRuzza  
Daniel Dietrich  
Minor: Chinese Studies  
Natalie Dionne  
Minor: Media Arts  
Mechanical Design Concentration  
Augustus Doggett  
Mechanical Design Concentration  
Claire Dollins  
Minor: Data Science  
Derrick Doncaster  
Biomechanical Concentration  
William Donovan  
Meaghan Downing  
Mikaela Drake  
Charles Dursin  
Madison Eisenhour  
Henry Elmhurst  
Minor: Business  
Anna Eng  
William Engdahl  
Peter Fagerholm  
Wenlan Fan  
Minor: Robotics Engineering  
Ethan Farrah  
Andrew Fauerbach  
Timothy Feehrer  
Minor: Materials  
Talya Feldman  
Chongyuan Feng  
Haojun Feng  
Lucas Fernandes Vicenzotto  
Angel Fernandez Sorondo  
Ricardo Ferrua Elmudesi

Hailey Fink  
Mechanical Design Concentration  
Seamus Flanagan  
Braden Foley  
Lilarose Forsyth  
Nicholas Franzini  
Minor: Manufacturing Engineering  
Michelle Frasch  
Michael Fraser  
Samuel Furman  
Tianyang Gao  
Joseph Gilmartin  
Alexander Gladu  
Minor: Business  
Michael Gobran  
Alvaro Gonzalez Garcia  
Mechanical Design Concentration  
Casey Gosselin  
Dominick Gravante  
Brendan Green  
Mechanical Design Concentration  
Renee Gruner-Mitchell  
Robotics Concentration  
Minor: Business  
Devin Guerrero  
Maggie Gunville  
Minor: Environmental and Sustainability  
Studies  
Evan Hallberg  
Mariah Haney  
Mechanical Design Concentration  
Lauren Hardy  
Corinne Hartman  
Jackson Hauman  
Alexandra Heline  
Meghan Hendry  
Erik Herrera  
Zachary Hershowitz  
Alek Hersum  
Minor: Robotics Engineering  
Kaleigh Hess  
Isabelle Ho  
Mechanical Design Concentration  
Ace Holod  
Minor: Chinese Studies  
Mingsi Hu

**Mechanical Engineering cont.:**

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Edward Jackson  
Shane Jackson  
Nikita Jagdish  
Minor: Aerospace Engineering  
Julia Jankowski  
Alex Kalmar-Gonzalo  
Daler Kang  
Nicholas Karatzas  
Brian Katz  
Caitlin Kean  
William Kelly  
Stephen Kendrish  
Yasaman Khosravi  
Cole Kraus  
Minor: Robotics Engineering  
Madison Kroncke  
Mechanical Design Concentration  
Nathan Kumar  
Sophie Kurdziel  
Rowan Labaugh  
Mechanical Design Concentration  
Danielle Lablanc  
Jonathan Landay  
Timothy Lanoue  
Alexandria Lehman  
Samuel Leonard  
Nichole Leveille  
Minor: Astrophysics  
Jennifer Lewitzky  
Andy Li  
Marissa Li  
Mechanical Design Concentration  
Hannah Lindsey  
Genavieve Lombara  
Materials Science and Engineering  
Concentration  
Samuel Losh  
Te Lu  
Zhuofan Lu  
Jacob Mackenzi  
Nathan Maldonado  
Ryan Malkowski  
Matthew Maloney  
Biomechanical Concentration

Mary Marquette  
Daniel Marsh  
Christopher Martenson  
Austin Master  
Tanner McCarthy  
Evan McCauley  
Julia Meisser  
Aidan Melgar  
Tyler Melo  
Minor: Electrical and Computer  
Engineering  
Connor Melone  
Brendan Merritt  
Mechanical Design Concentration  
Nathaniel Meyer  
Mechanical Design Concentration  
Lucas Micheels  
Kyle Mitchell  
Nathan Morin  
Mechanical Design Concentration  
William Morton  
Mitchell Mudge  
Evan Muzilla  
Ana Paula Navarro Aguayo  
Kevin Neidhart  
Minor: Manufacturing Engineering  
Matthew Nicastro  
Mechanical Design Concentration  
Alexis Nichols  
Wayne Nolette  
Taylor Nowak  
Minor: Materials  
Shannon O'Connor  
Minor: Sustainability Engineering  
Griffin O'Neil  
Matthew O'donnell  
Joshua O'grady  
Katherine O'leary  
Grace Olaya  
Taylor Ostrum  
Biomechanical Concentration  
Tarik Ourdyl  
Brian Pacheco  
Taylor Paradis  
Jacob Parker  
Nihal Patel



**Mechanical Engineering cont.:**

John Pattinson  
Minor: Sustainability Engineering  
Lauren Paul  
Minor: Business  
Katherine Pawlak  
Mechanical Design Concentration  
Speros Perakis  
Minor: Robotics Engineering  
Kelly Perfetto  
Daniel Perno  
Helena Petroff  
Brittney Pham  
Minor: Biology  
Kyle Postans  
Minor: Manufacturing Engineering  
Kaitlyn Pothier  
Alexander Puhalski  
Leo Quick  
Jasper Rankin  
Minor: Computer Science  
Nathan Reed  
Colin Reynolds  
Minor: Robotics Engineering  
Alyssa Richardson  
Minor: Fire Protection Engineering  
Mechanical Design Concentration  
John Riley  
Minor: Manufacturing Engineering  
Justin Riley  
Anxhelo Ripa  
Alexander Rivera  
Elizabeth Roberts  
Biomechanical Concentration  
Elizabeth Rocco  
David Rodriguez  
Mechanical Design Concentration  
Katherine Rosivach  
Matthew Rotman  
Jackson Rowland  
Kwesi Sakyi  
Minor: Robotics Engineering  
Shawn Salvatto  
Matthew Sanford  
Bailey Savage  
Mechanical Design Concentration

Joseph Scafidi  
Dawson Scheid  
Mary Scrivanich  
Minor: Data Science  
Meghan Scruton  
Mechanical Design Concentration  
Meghan Slaney  
David Smith  
Delia Smith  
Eliza Smith  
Minor: Spanish  
Timothy Snow  
Mechanical Design Concentration  
Jieyuan Song  
Liam Spence  
Minor: Spanish  
Peter Springer  
Minor: Materials  
Mitchell Sroka  
Tyler Stack  
Mechanical Design Concentration  
Molly Steinberg  
Minor: Business  
Richard Steinberg  
Thomas Sterrett  
Minor: Aerospace Engineering  
Matthew Stevens  
James Stolarczyk  
Minor: Electrical and Computer  
Engineering  
Zachary Stone  
Minor: Business  
Connor Sullivan  
Materials Science and Engineering  
Concentration  
Molly Sykes  
Minor: Computer Science  
Stephanie Tam  
Alyssa Tepe  
Minor: Electrical and Computer  
Engineering  
Benjamin Tetreault  
Calvin Thomas  
Daniel Trainor  
Kaitlin Tripi  
Mechanical Design Concentration

**Mechanical Engineering cont.:**

Dylan Turetsky  
Minor: Aerospace Engineering  
Benjamin Verdesi  
Adam Vespi  
Michael Viozzi  
Minor: Robotics Engineering  
Jack Waterman  
Erik Wegge  
Minor: Electrical and Computer  
Engineering  
Nicholas Weiland  
Katelyn Wheeler  
Wayde Whichard  
Marc Wicky Van Doyer  
Minor: Aerospace Engineering  
Kelsey Wilkinson  
Minor: Robotics Engineering  
Casey Willis  
Shawna Winters  
Tyson Wiseman  
Daniel Wrona  
Minor: Music  
Maureen Ye  
Jacob Yurcak  
Mechanical Design Concentration  
Khadir Zachery  
Calvin Zhang  
Howard Zheng  
Minor: Mathematics  
Thaddaeus Zuber

**Physics:**

William Aaron  
Maranda Allen  
Minor: Computer Science  
Jacob Casey  
Nicole Garay  
Minor: Data Science  
Nickolas Gardner  
Minor: Computer Science  
Yifan Gu  
Minor: Mathematics  
Ryan Hanna  
Minor: Chemistry  
Allison Hershoff

Caroline Jaeger  
Bhanuj Jain  
Brady Jeong  
Minor: Computer Science  
Brock Jolicoeur  
Morgan Kaler  
Brigitte Lefebvre  
Minor: Mechanical Engineering  
Minor: Nanoscience  
Benjamin Lunden  
Javery Mann  
Kaitlin Mason  
Minor: Mathematics  
Kaitlyn Morrison  
Minor: Mathematics  
Patrick O'Mullan  
Alexander Puhalski  
Thomas Rau  
Holden Snyder  
Daniil Volkov  
Brian Zawacki  
Gwyneth Zelmanow  
Yonglong Zhan  
Minor: Mathematics

**Professional Writing:**

Noah Brennick  
Elaine Chen  
Sarah Doherty  
Cameron Fiddes  
Alexa Freglette  
Carley Gilmore  
Karen Ho  
Liza Hote  
Rachel Maurice  
Cristian Nunez  
Bridgette Paredes  
Erin Perry  
Silvana Reid

**Psychological Science:**

Ricardo Ferrua Elmudesi  
Constantina Gatsonis  
Minor: Philosophy and Religion  
Karen Ho  
Minor: Chemistry

**Psychological Science cont.:**

Ellie Koptsev  
Jennifer Lewitzky  
Lilly-Beth Linnell  
Anish Nakahara  
Minor: Drama/Theatre  
Paul Pacheco  
Psychobiology Concentration  
Malvina Piziak  
Zachary Wagner  
Rachelle Wailes

**Robotics Engineering:**

Jesulona Akinyele  
Razan Andigani  
Ezekiel Andreassen  
Kenneth Armijo  
Brigid Auclair  
Minor: Computer Science  
Raymond Beazley  
Eli Benevedes  
Owen Blaufuss  
Minor: Computer Science  
Owen Buckingham  
Lucas Buermeyer  
Raymond Carter  
James Casella  
Minor: Computer Science  
Manjusha Chava  
Minor: Computer Science  
Alexander Corey  
Andrew Del Vecchio  
Atharva Dikshit  
Minor: Computer Science  
Benjamin Draper  
Gabriel Dudlicek  
Lily Durkin  
Madison Eisenhour  
William Engdahl  
James Englander  
Minor: Computer Science  
Tian Yu Fan  
Haojun Feng  
Dominic Ferro  
Kaitlyn Fichtner  
David Fournet

Minor: Media Arts  
Anthony Galgano  
Kushal Kamleshbhai Gandhi  
Tianyang Gao  
Liam Jyn Godin  
Casey Gosselin  
Lauren Hatfield  
Nicholas Hom  
Karen Hou  
Minor: Interactive Media and Game  
Development  
Edward Jackson  
Yongxiang Jin  
Minor: Computer Science  
Brian Katz  
Stephen Kendrish  
Filip Kernan  
Jamie Kringsman  
Michael Laks  
Jonathan Landay  
Matthew Langkamp  
Amber Lindberg  
Hannah Lindsey  
Anthony LoPresti  
Tyler Looney  
Zhuofan Lu  
Mary Marquette  
Jason Martino  
Julia Meisser  
Archie Milligan  
Suela Miloshi  
Kyle Mitchell  
Alyssa Moore  
Minor: Computer Science  
Andrew Mularoni  
Peter Nikopoulos  
Tom Nurse  
Erin Perry  
Brandon Persons  
Matthew Rothman  
Garett Ruping  
Ilyas Salhi  
Shawn Salvatto  
Nathan Savard  
Ian Scott

**Robotics Engineering cont.:**

Patrick Siegler

Minor: Mechanical Engineering

Brandon Snapperman

Jieyuan Song

Lauren Sowerbutts

Gus Teran

Anthony Tesoriero

Oliver Thode

Jarius Thomas

Ryan Tougas

Conrad Tulig

Lauren Wach

Minor: Mechanical Engineering

Yoni Weiner

Katelyn Wheeler

Ryley Wheelock

Sawyer Wofford

Jiyang Jeffrey Wu

**Society, Technology and Policy:**

Rafaello Adler-Abramo

Minor: Environmental and Sustainability Studies

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Graduate Studies and Research (Prof. Korkein, Chair)

**Re:** Motion to approve the May 2022 graduate student graduation list

**Motion:** The Office of the Registrar reports that the following candidates have either completed all the requirements for the degree designated in the department or program indicated or are expected to complete their degree requirements before May 12, 2022. They therefore are or will be eligible to receive that degree, and on behalf of the Committee on Graduate Studies and Research, I move that – pending final verification by the Registrar that all those on the list have in fact completed their degree requirements - they be approved for May 12, 2022, graduation.

### **Doctor of Philosophy Degree**

**Biochemistry:**

Androniqi Qifti

**Biology and Biotechnology:**

Ying Zhou

**Business Administration:**

Samuel Allen

Shima Azizi

Shiya Cao

**Chemical Engineering:**

Zhiru Zhou

**Chemistry:**

Alexandria Leveille

**Civil Engineering:**

Yinduo Chen

Arvand Navabi

**Computer Science:**

Xin Dai

Oleksandr Narykov

**Data Science:**

Narges Ahani

Suhas Srinivasan

ML Tlachac

Hang Yin

Liang Zhang

Yingxue Zhang

**Electrical and Computer Engineering:**

Raunak Borwankar

Ian Costanzo

Kuldeep Gill

Saad Islam

Kyle McClintick

Luyao Niu

**Fire Protection Engineering:**

Xiaoyue Pi

**Learning Sciences and Technology:**

Avery Closser

**Materials Science and Engineering:**

Reisya Ichwani

Christopher Massar

Bryer Sousa

Vanessa Uzonwanne

Panawan Vanaphuti

Yao Xu

Songge Yang

**Mathematical Sciences:**

Elisa Negrini

Jiaxuan Ye

**Mechanical Engineering:**

Ashley Chu

Chase St. Laurent

Haimi Tang

Mengqiao Yang

**Robotics Engineering:**

Nathaniel Goldfarb  
Kenechukwu Mbanisi

**Master of Business Administration Degree**

Justin Deveau  
Christopher Dunn  
Charles Koutsogiane  
Edi Naco  
Heath Oikle  
Timothy Roberts

**Master of Engineering Degree****Biomedical Engineering:**

Ramona Bago  
Julianna Cognetta  
Lyra Huynh  
Jordan Jones  
Hanson Lee  
Jordan Rosenfeld  
Bryce Wade

**Electrical and Computer Engineering:**

Redon Hoxha  
Daniel Manton  
Thomas Sullivan  
Daniel Wasson

**Power Systems Engineering:**

Rachel Danz  
Caitlin Gusk  
Jamison LaRoche  
Christopher Schramm  
James Scott  
Julie Walsh  
Richard Wilbur

**Master of Mathematics for Educators Degree**

Charles Eppinger  
Ashley Fagan

Kathleen Kenney  
Kerrie Pratt  
Victoria Zamarra

**Master of Science Degree****Aerospace Engineering:**

Sophie Balkind  
Leila Card  
Olivia Chiasson  
Abigail Collins  
William Cooley  
Terrance Cooper  
Matthew Greenlaw  
Alyssa Hollander  
Matthew Karns  
Veronika Karshina  
Meenakshi Kodali  
Allison Robatzek  
Nicholas Sackos  
Eric Scholz  
Christian Schrader  
Aaron Smith  
Thierry de Crespigny

**Applied Mathematics:**

Sean Fraser  
Nikolaos Kalampalikis

**Applied Statistics:**

Ryan Candy  
Zhangying Huang  
Zhengdao Jiao  
Enbo Tian  
Diyu Yang

**Biochemistry:**

Jordan Wynn

**Bioinformatics and Computational Biology:**

Jules Cazaubiel  
Nicholas Tourtillott

**Biology and Biotechnology:**

Matthew Bruno  
Solimar Ramis de Ayreflor Reyes

**Biomedical Engineering:**

Logan Gaudette  
Enxhi Jaupi  
Karina Mirochnik

**Biotechnology:**

Uwaifo Asemota  
Daniel Bereznyakov  
Samantha Carroll  
Serena David  
Brianna Donnelly  
Kristin Gothier  
Jiahao Lixue  
Victoria Scott

**Business Analytics:**

Priyanka B  
Venkata Kompella  
Daniel Walker

**Chemical Engineering:**

Marissa Breeden  
Antonia Dinicu  
Madison Reed  
Muntasir Shahabuddin  
Sylvia Thomas  
Yi jie Wu

**Chemistry:**

Roy Stoflet

**Civil Engineering:**

Joseph Tzanetos

**Computer Science:**

Merzia Naeem Adamjee  
Sami Baral  
Cooper Bennet  
Nikita Boguslavskii  
Noah Capucilli-Shatan  
Edward Carlson  
John Carroll

Samantha Crepeau

Joseph Cybul  
Xuhui Fan  
Kevin Fortier  
Alketa Guxha  
Aaron Krueger  
Junying Li  
Pichayut Liamthong  
Shary Johana Llanos Antonio  
James MacDonald  
Robear Mankaryous  
Katherine Martin  
Laurie Mazza  
Brian McKay  
Computer Security Concentration  
Connor McLaughlin  
Manas Mehta  
Felipe Mejias  
Veronica Melican  
Cameron Mitchell  
Noah Olson  
Computer Security Concentration  
Pooja Patel  
Jean-Luc Pierre-Louis  
James Plante  
Tyler Reiser  
Daniel Ribaud  
Raysa Rivera-Bergollo  
Renee St. Louis  
Vlad Stelea  
Shannon Truong  
Freddy Veloz Baez  
Samantha Woodland  
William Yang

**Cyber Security:**

Thomas Graham  
Carly Pereira

**Data Science:**

Jorge Aguirre  
Akshaj Balasubramanian  
Palawat Busaranuvong  
Kathleen Cachel  
Vincent Filardi  
Matthew Finn

**Data Science cont.:**

Jose Gamez Carias  
Mohammad Ghanbari  
Miranda Hernandez-Reisch  
Brendan Jacques  
Robert Johnson  
Madyson Kelly  
Xiuhan Li  
Yufei Lin  
Si Liu  
Leah Mitchell  
Farah Mohsin  
Siddhi Patil  
Philip Rago  
Sitanshu Nitin Rupani  
Ronak Sankaranarayanan  
Ashley Schuliger  
Laura Staugler  
Jingfeng Xia  
Jinhong Yu  
Wentao Zhao

**Electrical and Computer Engineering:**

Nachiket Bapat  
Peter Campellone  
Shiyu Cheng  
Zachary Clapper  
Ramazan Kaan Eren  
Maya Flores  
Saad Islam  
Ravi Kirschner  
Matthew Miller  
David Oles  
Nicholas Olgado  
Josiah Perrin  
Mirco Sciulli  
Richa Singh  
Myo Thein  
Alexander Thurley  
Muttalip Caner Tol  
Jeffrey Tolbert  
Xinguang Wang

**Environmental Engineering:**

Brielle Cash  
Evelyn Choudhary

Shannon Dasilva  
Kelsey Ouellette  
Lora Rinaldi  
Sebastian Stypulkowski  
Jacquelyn Valsamis

**Fire Protection Engineering:**

Gabriel Bitzer  
William Calcagno  
Cameron Labbree  
Andy Li  
Sara Lyons  
Maiya Mitchell  
Matthew Odom  
Benjamin Seeto  
Matthew Stroebel  
Juan Vargas  
Jae Wook Yu  
Jon Zimak

**Industrial Mathematics:**

Kayleigh Campbell

**Information Technology:**

Ethan Di Renzo  
Tianze Huang

**Innovation with User Experience:**

Michael Osei  
Michelle Santacreu

**Interactive Media and Game Development:**

Andrew Nichols-Melton  
Miquel Sans Cornet

**Learning Sciences and Technology:**

Vy Ngo  
Luisa Perez Lacera

**Management:**

Emma Bailey  
Madeline Blake  
Caitlin Boormeester  
Camille Bouchard-Chhoeuk  
Eva Bruklisch



**Management cont.:**

Anna Catlett  
Isabelle Chi  
Ruchita Choksey  
Isabelle Claude  
Makayla D'Amore  
Kahleb Downing  
Meaghan Downing  
Meredith Forcier  
Hannah Gelman  
David Hinckley  
Xavier Hines-Coombs  
Zoe Januszewski  
Jonathan Jironvil  
Denisa Kim  
Georgia Koulikas  
Mairead O'Neill  
Sofia Orrico  
Brooklynn Paris  
Celina Perino  
Kevin Ramos  
Matthew Sanford  
Matthew Shriner  
Nadia Singh  
Kat Tarantino  
Kade Woolverton

**Manufacturing Engineering:**

Matthew Goddard  
Nicholas Karatzas  
Anna Mercaldi

**Marketing and Innovation:**

Rusi Li  
Ziming Ye

**Materials Process Engineering:**

Daniel Felix

**Materials Science and Engineering:**

Winston Averill  
Kweku Colecraft  
Michael Cuddy  
Audrey Jean Philippe

Alexander McMahon  
Elizabeth Rocco  
Aidan Sevinsky

**Mathematics for Educators:**

Kimberly Hilton

**Mechanical Engineering:**

Joseph Alvarado  
Skylar Barthelmes  
Nolan Birtwell  
Sydney Borrello  
Meghan Brady  
Grete Bressner  
Owen Carlstrom  
Derek Chhiv  
Igor De Moraes  
Sarah DeMaio  
Ella Deane  
Charles Dursin  
Anna Eng  
Michael Gobran  
Dominick Gravante  
Andrew Gray  
Austin Higgins  
Colin Hiscox  
Tyler Hunt  
Anh Quang Huynh  
Michael Keable  
Douglas Koethe  
Timothy Lanoue  
Alexandria Lehman  
Genavieve Lombara  
Matthew Maloney  
Brittini McCall  
Brendan McCann  
Colin McNamara  
Nicholas Miller  
William Morton  
Taylor Nowak  
Abigail O'Sullivan  
David Okhman  
Helena Petroff  
Brian Preiss  
Brianna Raphino  
Colin Reynolds

**Mechanical Engineering cont.:**

Anxhelo Ripa  
Kwesi Sakyi  
Zachary Sears  
Noah Shoer  
Meghan Slaney  
Benjamin Steeves  
Oliver Thomas  
Diego Vaca Revelo  
Benjamin Verdesi  
Calvin Zhang  
Howard Zheng  
Nils van den Boogaard

**Neuroscience:**

Kathryn Nippert  
Benjamin Roop

**Operations Analytics and Management:**

Shreya Bhattacharjee  
Anne Davis  
Kayla Fabry  
Lingqing Su

**Operations and Supply Chain Analytics:**

Nikita Dilip Vadhani

**Physics:**

Kevin Stern

**Physics for Educators:**

Richard Cohen

**Power Systems Management:**

Ameen Shakir

**Robotics Engineering:**

Ali Abdelhamid  
James Akl  
Jessica Babcock  
Jacob Beiting

Taylor Bergeron  
Preyash Bhansali  
Steven Brewer  
Ryan Carnemolla  
Chintan Desai  
Mandar Deshmukh  
Thomas Ford  
Spencer Howes  
Lyndsey Mandelare  
Sean McKeever  
Arielle Mizov  
Muqet Jibrán Mohammed Abdul  
Meha Mohapatra  
Nghia Nguyen  
Adam Nudelman  
Brandon Persons  
Kalani Picho  
Trevor Rizzo  
Eric Rogers  
Marlon Scott  
Yash Parag Shah  
Abedin Sherifi  
Trevor Sherrard  
Justin Smith  
Brian Wells  
Ryley Wheelock

**Supply Chain Management:**

Adenike Obayemi

**Systems Engineering:**

Alexandra Auteri  
Thomas Boynton  
Michaela Dowling  
Michael Massar  
Basak Soylu  
Kimberly Sward  
Rachel Wardwell

**Systems Engineering Leadership:**

Samuel Almeida

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Appointments and Promotions (Prof. Iannacchione, Chair)  
Committee on Governance (Prof. El-Korchi, Chair)

**Re:** Motion to add criteria for promotions in the Professor of Teaching track

**Motion:** The Committee on Appointments and Promotions and the Committee on Governance recommend, and we move that the Faculty Handbook, (PART TWO, Policies and Operating Procedures; Section 1, Policies Regarding the Status of Faculty; Subsection D, Promotion) be modified to add language describing the criteria for promotions in the Professor of Teaching track, as described below.

**Description of the proposed changes to the Faculty Handbook:**

(To be inserted in PART TWO, Section 1, Subsection D between subsections the D.1 and the old subsections D.2 that will be renumbered D.3 and so on.)

**D.2.1 Criteria for Promotion in the Professor of Teaching Track**

The tenure-track faculty in the Professor of Teaching track make a variety of contributions as educators, innovators, and leaders that advance WPI's educational mission and visibility.

The criteria for promotion to Associate Professor of Teaching are the same as the tenure criteria for the Professor of Teaching track (Part Two, Section 1.A). The candidate should have demonstrated high-quality teaching practice with significant impact, maintained a commitment to professional growth and currency that has significant impact, developed creative pedagogical approaches within the context of their discipline or beyond, and showed the promise for continued high-quality performance in these areas. Evidence of quality service to the program/department/school, the WPI community, the field/profession, and/or the local/regional community is also expected.

The specific categories of performance in the (full) Professor of Teaching rank are teaching practice; continuing professional growth and currency; and service. The candidate for promotion to full Professor of Teaching should demonstrate continuing high-quality teaching practice with significant impact on students as well as a record of contributions and professional growth and currency that includes creative pedagogical approaches within the context of their discipline or beyond and that demonstrates a positive external impact beyond WPI as appropriate to the candidate's area of expertise. The standards for promotion to full Professor of Teaching are similar to those for promotion to Associate Professor of Teaching, with the expectation of continued contributions that demonstrate a positive external impact beyond WPI since becoming an Associate Professor of Teaching. Contributions to WPI may demonstrate an external impact if they are disseminated and/or recognized externally. In most cases, the high-quality and positive external impact of contributions must be recognized by peers within WPI and by knowledgeable experts external to WPI.

Because service and citizenship are an integral part of being a tenured faculty member at WPI, a candidate for promotion must also have established a significant record of performance in service and citizenship contributions to the program/department/school, the WPI community, the

field/profession, and/or the local/regional community. WPI values both individual and collaborative work within and across the domains of teaching practice, professional growth and currency, and service.

While it is expected that these criteria describe the great majority of cases, there may be exceptional candidates whose unique contributions, while not conforming to these guidelines, are deserving of promotion.

Candidates who switched into the Associate Professor of Teaching rank from a non-tenure track should first achieve tenure before seeking promotion to full Professor of Teaching.

### **D.2.1. Definition of Teaching Practice, Professional Growth, and Currency**

The definitions of the primary areas of teaching practice, continuing professional growth and currency, and service along with guidelines for documenting these are detailed in the Tenure Criteria for the Associate and (full) Professor of Teaching (Part Two, Section 1.A) and in the Guidance for Documenting and Assessing Activities Toward Tenure for Professors of Teaching (Part Two, Section 1.A).

The Professor of Teaching track emphasizes the professional growth and currency of each faculty member, especially when it advances the candidate's teaching and/or discipline more broadly and contributes to WPI's educational mission and visibility. Professional growth and currency include but are not limited to experimenting and exploring for the purpose of innovative teaching (as described in the Tenure Criteria for the Associate and (full) Professor of Teaching, Part Two, Section 1.A) and/or remaining continually active as scholars through the scholarship of discovery, teaching and learning, integration, application and practice, or engagement (as defined in Definition of Scholarship, Part Two, Section D.1.2).

#### **Rationale:**

COAP proposes to include language for the criteria for promotion in rank in the Professor of Teaching track. No such language exists and there is a critical need to have language that reflects the language used for the tenure process as well as the Assistant to Associate rank promotion for the Professor of Teaching track outlined by CTAF. The criteria described for promotion from Associate to Full rank in the Professor of Teaching track incorporates the language developed for teaching practice, and professional growth and currency, as well as language developed by the ADVANCE group to provide clearer description of Service.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Appointments and Promotions (Prof. Iannacchione, Chair)  
Committee on Governance (Prof. El-Korchi, Chair)

**Re:** Motion to add procedures for promotion to (full) Professor of Teaching

**Motion:** The Committee on Appointments and Promotions and the Committee on Governance recommend, and we move that the Faculty Handbook, (PART TWO, Policies and Operating Procedures; Section 1, Policies Regarding the Status of Faculty; Section D, Promotion) be modified to add language describing the procedure for promotion to (full) Professor of Teaching.

**Description of the proposed changes to the Faculty Handbook:**

(To be inserted in PART TWO, Section 1, Subsection D to follow new subsection D.2.2 of the previous motion and to be inserted between subsection D.1 and the old subsections D.2 that will be renumbered D.3 and so on.)

**D.2.3. Documentation in the Promotion Dossier**

The candidate for promotion to full Professor of Teaching will submit a promotion dossier representative of their overall career, with an emphasis on work since tenure and/or promotion to Associate Professor of Teaching. The candidate's promotion dossier will include the following: a curriculum vitae (CV); a personal statement of teaching practice, professional growth and currency, service, and impact; a teaching portfolio to document high-quality teaching delivery with significant impact; sample artifacts demonstrating commitment and significant impact of continuous professional growth and currency – especially as it demonstrates innovative teaching and creative pedagogical experimentation within and/or beyond the context of their discipline, and other indicators to demonstrate the high quality and external impact of the candidate's contributions.

- The **CV** provides comprehensive documentation of the candidate's experience and accomplishments in teaching practice, continuing professional growth and currency, and service.
- The **personal statement** provides a reflective summary and description of the candidate's professional accomplishments and contributions. Typically, the personal statement will include sections on teaching practice, professional growth and currency, service, external impact, and future plans. The statement should provide a narrative arc that helps the committee and the Provost understand the candidate's activities to date, how those activities benefit the candidate and enhance WPI's educational mission and visibility, and how they will lead to the next stage of the candidate's career.
- The **teaching portfolio** provides documentation of the candidate's high-quality teaching practice with significant impact. A teaching portfolio presents representative teaching materials and evidence of their effectiveness. Typical elements in a teaching portfolio include a reflective statement of the candidate's approach to teaching and learning, samples of teaching materials and teaching innovations, and measures of teaching effectiveness or materials that demonstrate student learning.

- The **sample artifacts** provide documentation of the high-quality and external impact of the candidate's contributions to teaching practice and their successes in professional growth and currency especially as those successes demonstrate creative pedagogical development and exploration. Contributions may be documented and disseminated through a variety of artifacts. The continuum of artifacts through which successful contributions may be documented and disseminated matches, in its inclusiveness and variety, the continuum of ways one may demonstrate impact and quality of teaching practice and impact and commitment to professional growth and currency.
- The candidate is welcome to submit any metric of external impact they wish so long as the context is explained.

Overall, the candidate should use this documentation to present the case that they have achieved the criteria for promotion. Contributions may combine or cut across traditional categories of teaching practice, continuing professional growth and currency, and service. The candidate is invited and encouraged to use the promotion dossier to make arguments for the quality and impact of their work using these categories or in other ways if those other ways are appropriate to the form and impact of their teaching and other professional contributions.

In addition to the above materials submitted by the candidate, the Joint Promotion Committee (JPC) will add four other sources of information to the complete promotion review dossier: 1) Summary student ratings for all courses and projects taught at WPI in the last five years. 2) Responses to a teaching evaluation sent to a random selection of former students and alumni whom the candidate has taught in the last five years. 3) Letters of appraisal solicited by the committee from internal and external peers for a confidential evaluation of the materials submitted by the candidate for the promotion dossier.

#### **D.2.4. Standards for Evaluation of the Promotion Dossier: Quality, Commitment, Impact and Peer Review**

The candidate's promotion dossier and the criteria for promotion (sections D2.1 – D.2.3) will be sent to peers within WPI and to knowledgeable people external to WPI for an independent assessment of the candidate's teaching practice, professional growth and currency, and service – with respect to quality, impact, and commitment, as appropriate. These letters of appraisal will be read only by people who are directly involved in the evaluation of the nomination for promotion, and they will not be shown to the candidate or to anyone else. This section provides additional guidance to reviewers for this assessment.

An assessment of **high-quality teaching practice with significant impact, commitment to and significant impact of professional growth and currency, and service** may be based on any and all material in the promotion dossier, including the CV, personal statement, teaching portfolio, sample artifacts, or indicators of external impact. Traditional measures to assess quality do not necessarily accommodate all areas of teaching practice, professional growth and currency, and service. Nonetheless, the following six standards have been identified to evaluate quality across diverse areas: clear goals, adequate preparation, appropriate methods, significant impact, effective presentation, and reflective critique. Since the dossier includes the candidate's reflective critique

in their personal statement, peer reviewers are invited to apply these six standards to assess the candidate's teaching practice, professional growth and currency, and service in the promotion portfolio.

**External impact** beyond WPI should be assessed based on the relevant standards in the areas of the candidate's contributions. Thus, the starting point to assess external impact is the candidate's personal statement, which should identify the area or areas of their contributions across teaching practice, professional growth and currency, and service and indicate examples of external impact beyond WPI. WPI recognizes that the weight assigned to quantitative measures and documented evidence of impact varies widely along the continuum of contributions and accomplishments of candidates for Professor of Teaching. Consequently, candidates are not limited in the relevant evidence they may provide to demonstrate external impact.

**Peer reviewers** should be experts in or experienced practitioners of, and therefore appropriate evaluators of, the area or areas of the candidate's contributions. Where appropriate, external reviewers may include experts whose institutional affiliation is beyond the academy if they are well-placed to testify to or evaluate the quality and impact of the candidate's contributions.

All reviewers—internal and external peers, members of promotion committees, or academic decision-makers—are reminded that **implicit and explicit bias** has been shown to occur in every aspect of a faculty career that is evaluated. Empirical studies have shown that letters of recommendation for women and men differ in gendered ways: letters for women are often shorter, less detailed, and reinforce gender stereotypes. Women faculty and faculty of color also may face bias in student ratings of teaching or in mentoring and sponsorship. The choice of area or areas for professional contributions (e.g. interdisciplinary, qualitative, community-engaged, theoretical, or digital) may result in comparatively traditional recognition but nevertheless demonstrate high quality and impact in forms appropriate to those contributions. The Committee on Appointments and Promotions highlights potential sources of bias in this description of the standards for evaluation of the promotion dossier so that all reviewers at every stage of the review process will be aware of potential implicit and explicit bias and take care to limit opportunities for such bias to influence the consideration of each nomination for promotion.

**Rationale:**

COAP proposes to include language for the procedures for promotion in rank in the Professor of Teaching track. No such language exists and there is a critical need to have language that reflects the language used for the tenure process as well as the Assistant to Associate rank promotion for the Professor of Teaching track outlined by CTAF. The procedure described for promotion from Associate to Full rank in the Professor of Teaching mirrors those used for all other procedures for promotion but details the specific elements needed for the Professor of Teaching track.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Appointments and Promotions (Prof. Iannacchione, Chair)  
Committee on Governance (Prof. El-Korchi, Chair)

**Re:** Motion to modify eligibility and time in rank guidelines for promotion of tenured and tenure-track faculty

**Motion:** The Committee on Appointments and Promotions and the Committee on Governance recommend, and we move that the language regarding eligibility and time-in-rank for the tenured and tenure-track faculty members in the Faculty Handbook, (PART TWO: Policies and Operating Procedures; Section 1. POLICIES REGARDING THE STATUS OF FACULTY; Subsection D. Promotion) be modified, as described below.

### **Description of the proposed changes to the Faculty Handbook:**

#### ***Current wording in the Faculty Handbook:***

PART TWO: Policies and Operating Procedures

Section D: Promotion

#### **D.2. Procedures for Promotion Nomination and Review**

##### **D.2.1. Eligibility and Time in Rank**

A candidate for promotion to **Associate Professor** normally will have completed five years as an Assistant Professor before a promotion review in the sixth year. Probationary faculty with initial appointment as Assistant Professor normally receive a combined review for tenure and promotion to Associate Professor from a Joint Tenure Committee, as described in Part Two, Section 1.A. Only in exceptional circumstances should an Assistant Professor be nominated for promotion to Associate Professor earlier than the scheduled tenure review.

To be considered for promotion to professor, an associate professor must have demonstrated considerable professional growth. A candidate for promotion to **Professor** normally will have completed at least five years as Associate Professor and at least three years as an Associate Professor at WPI before the year of the promotion review. Only in exceptional circumstances should an Associate Professor be nominated for promotion to Professor at an earlier date.

#### ***Proposed wording in the Faculty Handbook:***

PART TWO: Policies and Operating Procedures

Section D: Promotion

(**Highlighted** text is added or modified wording. **Red** text was added and **red struckthrough** text was deleted as an amendment approved at the May 10, 2022 faculty meeting.)

#### **D.3. Procedures for Promotion Nomination and Review**

##### **D.3.1. Eligibility and Time in Rank for Tenured and Tenure-Track Faculty**

A candidate for promotion to the associate rank in any track must have completed at least three years and normally will have completed five years at the assistant rank in the same track before a promotion review in the sixth year. Probationary faculty members with initial



tenure-track appointments at the assistant rank in any particular track normally receive a combined review for tenure and promotion to the associate rank in the same track from a Joint Tenure Committee, as described in Part Two, Section 1.A. Only in cases of exceptional professional achievement should a faculty member at the assistant rank be nominated for promotion to the associate rank earlier than the scheduled tenure review. These exceptional professional achievements must be explicitly documented in the nominator's letter. In these cases, the promotion criteria used will be the same as the tenure criteria for that particular track.

To be considered for promotion to full professor in any track, an associate ranked faculty member must have demonstrated considerable professional growth while at the associate rank. A candidate for promotion to the full rank in a particular track normally will have completed at least five years at the associate rank in the same track and at least three years at the associate rank in that track at WPI before the year of the promotion review. Only in cases of exceptional professional achievement should a candidate at the associate rank be nominated for promotion to full rank at an earlier date. These exceptional professional achievements must be explicitly documented in the nominator's letter.

Faculty members switching from the Teaching Professor track to the Professor of Teaching track take on the same rank in their new track, ~~starting their time-in-rank clock on the new track unless their~~ Time-in-rank will be detailed in each candidate's appointment letter at the time of the switch in tracks to specify years credited toward time in rank on the new track.

**Rationale:**

Because of the introduction of a new tenure-track line of Professor of Teaching, wording for the eligibility and time-in-rank needs to be modified in order to apply to this new line. In addition, because this new tenure-track is a teaching path to tenure, the shift in track from TRT to TTT can occur at nearly any time during the Teaching Professor's career that decouples the traditional timeline and tenure decisions thus, specific language is needed to deal with articulating minimal requirements, especially for time-in-rank.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Fringe Benefits Committee (Prof. Radzicki and Prof. Sarkis, Co-Chairs)  
Committee on Financial and Administrative Policy (Prof. Fehribach, Chair) and  
Committee on Governance (Prof. El-Korchi, Chair)

**Re:** Motion to approve a Resolution calling for the full restoration of retirement benefits

**Motion:** The Fringe Benefits Committee, the Committee on Financial and Administrative Policy, and the Committee on Governance recommend, and we move that the following Resolution be approved:

Resolution:

Be it resolved that WPI should take steps to restore lost faculty and staff retirement contribution as well as needed spending and staffing to match pre-COVID levels (the levels that were effective in academic year 2019/2020). Be it also resolved that WPI should consider making retroactive retirement contributions that were lost during 2020/2021 (3%) and 2021/2022 (1.5%) fiscal years.

**Preamble:**

***Faculty Handbook: Part Two***

***Section 3: Certain Policies on Faculty Benefits and Opportunities***

***Subsection F: The Fringe Benefits Committee***

The Fringe Benefits (FBC), a subcommittee of FAP, is responsible for reviewing and proposing changes to the WPI fringe benefits offerings with special attention paid to the evaluation and recommendation of health care plans and health insurance providers, tuition benefits, disability plans, and retirement policies . The committee includes faculty and staff voting members.

(Faculty Handbook, Part 2, Section 3F page 2-48).

***Faculty Handbook: Part One***

***Bylaw One: Membership, Duties, And Responsibilities of Standing Committees of the Faculty***

***Section VIII: The Committee on Financial and Administrative Policy (FAP)***

FAP informs the Faculty on administrative and financial matters that affect the Institute. FAP ascertains the interests and views of the Faculty concerning such matters, deliberates with appropriate access to institutional data, and works with the Administration to make recommendations that serve the best interests of the Institute.

(Faculty Handbook, Part 1, Bylaw 1, Section VIII, page 1-13).

**Rationale:**

In the Fall 2019, WPI established the WPI Forward initiative, an extensive review of institutional expenditures, guided by the external consultant Huron Corporation. By analyzing institutional expenditures across all spending categories, WPI Forward was charged with identification and recommendation for specific actions that could be taken to generate \$8.5 million in savings. The savings would in turn be invested to increase affordability of WPI education for a diverse group of incoming students by increasing financial aid and tuition discount rate.

One of the spending categories that was examined focused on 403(b) contribution and merit salary increase. During Spring 2020, a working group generated a report containing their analyses and peer benchmarking and drafted several recommendations for the President to consider.

In Spring 2020, the potential impact of COVID on operating budget further contributed to the resolve to reduce expenditures.

To offset a potential financial impact of COVID, in May 2020, the Board voted to temporarily reduce retirement contribution from 11 to 8% for 2020/21 and to eliminate salary raises (both base and merit) for the 2020/21. By reducing the retirement contribution, the Board unilaterally rewrote the implicit contract between the university and its faculty and staff.

In May 2021 the Board

- Partially restored retirement contributions to 9.5% effective July 1, 2021 (WPI Forward recommendation was 10%).
- Restored salary pool for base and merit increases to 3% from October 2021 to June 2022 (9 months).

**As a result, faculty and staff have lost a cumulative amount of diminished retirement benefits (11% to 8% for one year, and to 9.5% for the second year), and 15 months of no salary increases between July 2020 and October 2021.**

While the 30 percent cut to our retirements cost us each thousands of dollars in our annual compensation, the larger issue remains that faculty and staff have been asked to bear the brunt of deep cuts to the academic mission as well. The University implemented a hiring freeze, including hiring 16 of 22 planned new full-time faculty lines that had been projected for the upcoming year. That combined with attrition in the forms of 12 professors taking early retirement, 11 non-continuing NTT faculty, and 5 faculty transitioning to part-time. Each academic Department lost ~30% of their non-salary operating budgets while enrollment of undergraduate students continues to grow.

Fortunately, the University has weathered the uncertainty of COVID impact better than anticipated and both fiscal years 2019/20 and 2020/21 ended with millions of dollars in operating surpluses. Full restoration of retirement benefits and retroactive contribution awards are expected actions of the University that values the well-being of the community, expects collective responsibility, and praises dedication of its members – all highlighted in the new Strategic Plan.

**Impact:** Reestablishing the retirement contribution will allow us to continue attracting highly qualified personnel, while retaining current faculty and staff.

1. The most recent COACHE survey of faculty satisfaction deployed in spring 2021 identified only one area of common dissatisfaction – retirement benefits.

2. Faculty and staff morale has been greatly affected by the reduction in retirement benefits. A recent mental health task force survey identified financial security as among the stressors experienced by faculty and staff— need for *improved* benefits were highlighted

3. The reduction in this benefit disproportionately affects younger and lower paid faculty and staff.

**Implementation:** The Committees recommend that the Resolution be delivered to the President and the Board of Trustees immediately upon its approval by the Faculty and that the recommendations be incorporated into the budget for 2022/23 starting July 1, 2022.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Information Technology Policy (Prof. R. V. Cowlagi, Chair)

**Re:** Motion to establish the Learning Management System and Video Lecture Support Policy

**Motion:** The Committee on Information Technology Policy recommends, and I move, that the Learning Management System and Video Lecture Support Policy be established as described below.

This proposed Policy has been developed in close collaboration with the Committee on Academic Policy and the Committee on Graduate Studies and Research.

**Description of Proposed Policy**

Please see the next page.

## Learning Management System and Video Lecture Support Policy

### **I. Purpose**

To support its teaching mission, WPI provides several Information Technology (IT) tools including a Learning Management System (LMS) and software systems for developing and disseminating course materials. Video lectures are increasingly used among course materials, especially for remote learning. The creation, storage, and dissemination of videos requires significant IT resources. This policy addresses the IT tools that support developing and disseminating course materials and specifically addresses video content recording and dissemination. This policy describes the various use cases of these tools, logistical procedures, data retention standards, the rights and responsibilities of users, and other guidelines. This policy is intended to enable effective use of these IT tools for teaching while also maintaining compliance with state and federal laws and other WPI policies.

### **II. Scope**

This policy applies to all Faculty members, students, staff, and others (“Users”) who use the University-supported IT tools for academic coursework. This document will be reviewed annually and may be updated to accommodate evolving IT tools for teaching.

This policy specifically applies to the following IT tools provided at WPI: (1) Canvas, which is the LMS, (2) Canvas Studio, Echo360, and Ensemble Video, which are software systems for video lecture recording and/or dissemination, (3) class capture hardware systems such as cameras and microphones installed in classrooms on the WPI campus, and (4) Zoom and Zoom Cloud, which are video conferencing and recording software systems. This policy does not apply to any other system used for creating or disseminating audio-visual recordings, e.g., personal YouTube accounts or third-party video recording tools.

### **III. Definitions**

- **Managing Unit:** The WPI Academic Technology Center (ATC) is the managing unit responsible for the IT tools addressed in this policy.
- **Student Information System (SIS):** WPI currently uses Workday as a SIS for managing student enrollment and course registration data.
- **Learning Management System (LMS):** WPI currently uses Canvas by Instructure as an LMS for managing all electronic course material. For every course in the SIS, a unique website (“LMS Course Site”) is automatically created within the LMS.
- **Class Capture:** the action of recording live sessions or other audio-visual course content in a classroom on the WPI campus.
- **Video Lecture:** audio-visual content used for coursework, regardless of the author(s) of the content (i.e., faculty, staff, students, or non-WPI-affiliated guest).

### **IV. Policy**

The use of the LMS, class capture hardware, and software tools is optional for course instructors, i.e., instructors may “opt-in” to the use of these tools. Here “opt-in” means that these tools will *not* be used by default *unless* the course instructor chooses to do so. For example, classroom sessions will not be recorded by default without the consent of the instructor. In exigent

circumstances affecting WPI, the use of some of these tools may be enabled by default. Any such decision to use these tools by default must be first approved by the Committee on Academic Policy (CAP), the Committee on Graduate Studies and Research (CGSR), and the Committee on Information Technology Policy (CITP), and followed by a vote of approval from the WPI Faculty. In such circumstances, provisions must be made for instructors to decline the use of any or all of these tools (i.e., “opt-out” of their use).

Instructors who choose to use any of these tools shall adhere to this policy in addition to the WPI Acceptable Use Policy. WPI-ITS shall ensure that these IT tools comply with academic policies and shall clearly communicate the provisions of this policy to users. Data stored on the LMS, Canvas Studio, Echo360, and Zoom Cloud is not considered “User Electronic Information” as defined in the WPI Access to User Electronic Information Policy and is therefore not subject to that policy.

### **A. Use and Operation**

For all courses with a course registration number in the SIS (Workday), an LMS course site is automatically created. The course instructor and all registered students are provided access to the LMS course site by default. The LMS course site provides mechanisms to disseminate all course materials including assessments and to communicate with students registered for the course. Students can access the contents of an LMS course site only after the site is enabled (“published”) by the instructor.

Access to the LMS, Echo360, and Zoom is available to all WPI community members using their WPI user account credentials. This policy does not apply to access via user’s personal account (e.g., personal Zoom account). Consortium students officially enrolled in WPI courses have a WPI user account. Students with inactive WPI accounts, e.g., students making up for previous Incomplete grades but not presently enrolled in any courses, must work with the Registrar to reactivate their status and gain access to the LMS. Further details about user roles and data access privileges in the LMS are identified in Sec. IV-B (User Roles and Access Management).

Instructors who choose to provide students with video lectures should consider the following typical use cases and consider the use of IT tools in developing and disseminating such video lectures.

Use case	Description	Logistics
Classroom recording	The recording of a lecture or other class activity as it happens in a classroom on the WPI campus during scheduled class hours.	<p>Classroom activity is recorded by class capture hardware, which typically includes (1) an overhead camera pointed at the lectern, (2) screen capture of any content displayed by the overhead projector, and (3) microphones affixed to the lectern. Additional wireless microphones may be borrowed from the ATC.</p> <p>The recorded videos are stored on Echo360 servers and may be accessed by the instructor through their Echo360 account. Echo360 is integrated with the LMS and classroom recordings automatically appear in the LMS course site under the “Echo360” link.</p>
Virtual classroom recording	The recording of a lecture or other class activity as it happens in a Zoom virtual classroom during scheduled class hours.	<p>Zoom allows the content owner to record audio, computer screen, and video. However, if student privacy is a concern, controls in the software allow for recording only what is on the screen and not student images.</p> <p>Zoom Cloud and Zoom local recordings can be imported into Echo360. To facilitate this import, Users should contact ATC support via email at <a href="mailto:hub@wpi.edu">hub@wpi.edu</a>.</p>
Other video recordings	An audio or video lecture prepared outside of class hours. This includes videos prepared by faculty, staff, and students using the IT tools for any purpose.	<p>An audio-visual recording is created using a WPI computer or a personal computer with hardware specific to that computer. Software tools for creating such a recording include Canvas Studio, Echo360, and Zoom.</p> <p>Instructors who want to learn how to use this software may contact ATC support via email at <a href="mailto:hub@wpi.edu">hub@wpi.edu</a>.</p>



## B. User Roles and Access Management

A summary of User roles and their data access/control privileges in the LMS is provided below.

Course Role	Privileges
Teacher	The Teacher role has the highest level of privilege within a course site. Users in this role are able to control all aspects of the course through the Course Settings. Instructors and co-instructor(s) listed as a Instructor(s) of Record in the SIS has/have Teacher privileges by default. Instructors must enable (“publish”) the LMS course site before it can be accessed by students. Instructors can access a Test Student account that emulates a student’s perspective of the course site.
Teacher’s Assistant (TA)	User can change nearly all aspects of the course through the Course Settings, except for Course Cartridge Import features. A TA cannot request that additional course access be granted to users outside of the SIS enrollment. A TA can access course content before it is “published” by the Teacher.
Course Builder	User can add content to the course through the Content areas, access Settings, and create Tests, Surveys and Question Banks from the Course Settings. Course Builders can see all of the course content except for the Grades area. This role is appropriate for a user to manage the course without having access to student grades. A course builder can still access the course if the course is unavailable to students.
Grader	User can access and edit all areas under Grades. Graders can also access Quizzes, Assignments, Discussions, and other tools that have been set up as graded. A Grader can access a course before it is “published”.
PLA	User can access all Course Content, Assessments, Communication Areas, and Tools that are available to students. User has no access to Grades or Course Settings and does not show up in the gradebook. A PLA cannot access a course before it is “published”.
Student	User can access all Course Content, Assessments, Communication Areas, and Tools that are available to students. A Student can see their own grades in the Grades area. Students do not have access to Course Settings. If the gradebook function is being used, students who are officially enrolled in a course may not have another role in that same LMS course site that enables their access to the course site gradebook. Students who are auditing a course must officially register the audit through the Registrar's Office, following which access to the LMS course site will be automatically provided.
Manually-Added Student	This role is similar to the “Student” role above but is not tied to the Student Information System so it is not removed when the SIS syncs up official course enrollments. This role is suitable for students auditing a course, making up an Incomplete during a subsequent offering, or for other course guests.
Observer	This role is intended for someone who is monitoring (“observing”) a named account holder. In a K12 setting, a parent who is keeping track of assignments and grades of their minor. Observers have no access to the course settings. Areas within the course are made available to observers, but typically they can only view course materials and do not have access to submit tests and assessments, or have permission to post on discussion boards. Users in this role are not able to access and view course recordings.

**Access to the LMS:** Access to an LMS course site is limited only to the instructor(s) and to the students registered for the course through the SIS, unless access to the site is permitted by the Teacher, or their designee (e.g., a TA for the course). Guest Accounts can be created for testing purposes or for users who are not otherwise authorized to have official WPI computing accounts

or have no need for WPI resources accessed by a WPI computing account. To facilitate this, an e-mail request to [hub@wpi.edu](mailto:hub@wpi.edu) is required and must include the name and e-mail address of the person that needs a guest account, the course number, and the course role access level they need. Students may be restricted from accessing the LMS due to administrative holds. In such cases, the restriction may be overridden by the managing unit at the sole direction of the Registrar. In rare and emergent circumstances, such as the death of an instructor, access to an LMS course site may be temporarily provided to the Department Head/Program Director and/or their designees. Such emergent access:

1. Is intended to ensure the delivery of a course when the original instructor is unable to do so;
2. Must be requested by the Department Head / Program Director and approved by the Dean of the School;
3. Will be granted on a case-by-case basis for a duration not to exceed the term or semester for which the course is scheduled; and
4. Will not override intellectual property rights of the original instructor provided by the WPI Intellectual Property Policy.

**Access to video lectures:** Canvas Studio, Echo360, and Zoom have established software integrations with the LMS. Therefore, access to videos through these software systems is automatically controlled through the LMS, thereby ensuring that access is provided to registered students only. Access to videos through these systems may be further limited within the LMS by the Teacher.

### **C. User Support and System Maintenance Procedures**

The Academic Technology Center offers consultative support in the form of trainings and troubleshooting support for all IT tools addressed in this policy. All requests for support for these tools should be sent via email to [hub@wpi.edu](mailto:hub@wpi.edu). For Canvas and Canvas Studio, further technical support may be available through the vendor (Instructure) through the *Help* button in Canvas.

Vendors continually deliver software bug fixes and software upgrades. The managing unit reserves the right to perform upgrades or make new features available during the semester if there is a significant change or improvement to the performance of the tool. Users will be notified in advance if any disruption to the learning environment is expected.

The managing unit will notify Users of any planned outages of these tools that occur outside of the weekly downtime posted on the WPI Hub website. The managing unit will respond to unplanned outages to provide updates concerning the resumption of services as quickly as possible. The managing unit will oversee communication efforts to announce upgrades, and bug fixes when appropriate (e.g. when a bug is resolved or when there is a significant change to how a tool or feature is accessed/used).

LMS system administrators may use the “become” emulator tool with permission from the User, which allows them to enter any username and emulate that individual for troubleshooting purposes. This use is covered under the WPI Code of Conduct for IT Administrators.

#### D. Content Management, Retention and Backup

All software systems discussed in this policy retain data for certain durations of time described as follows.

IT Tool	Retention
Canvas and Canvas Studio	Course sites will be maintained for six academic years. Concluded courses include student assignments. Course retention policies will be re-evaluated any time a significant version change of the current LMS is installed or a different LMS is selected by WPI. The six-year retention duration applies specifically for LMS sites created for coursework. For all other special-purpose LMS sites that are not associated with a course – e.g., Faculty Governance Committee sites – retention will be determined on a case-by-case basis. Individuals with “Teacher” privileges of such special-purpose LMS sites (e.g., Committee Chairs) are responsible for ensuring appropriate retention, and should contact <a href="mailto:hub@wpi.edu">hub@wpi.edu</a> for further information.
Echo360	Echo360 content will be maintained for six academic years from the date of recording. When a recording is copied to a subsequent course library, the clock restarts. (Note that in the case of public links being reused, there is no way to reset the clock each time the link is reused so best practice is to copy the recording to a new course library.) Videos older than six academic years cannot be retrieved when they are deleted in accordance with these retention practices. For all other special-purpose LMS sites that are not associated with a course, retention will be determined on a case-by-case basis.
Ensemble Video	No retention. WPI will cease to use Ensemble Video in July 2022.
Zoom	Zoom cloud recordings are stored in the Zoom cloud library for 100 days from the date of the recording. Zoom local recordings are managed by the User on their device.

Users are responsible for maintaining any additional backup storage of data beyond the retention durations described above. The managing unit is not responsible for keeping backups beyond the retention durations described above. Users should contact [hub@wpi.edu](mailto:hub@wpi.edu) for technical support on maintaining backups beyond the standard retention durations described above.

#### E. Copyright and Intellectual Property

In most instances, content on the LMS and other software systems discussed in this policy is subject to the WPI Intellectual Property Policy (WPI-IPP). Per the WPI-IPP, teaching and curriculum materials authored by faculty members including classroom lectures, seminars and presentations reduced by or for the author to written or other recorded form are considered intellectual property of the author(s). By consequence, classroom recordings, pre-recorded lectures, and virtual classroom recordings are intellectual property of the faculty member(s) who is/are the official instructors of record for a course. Exceptions, per the WPI-IPP, are: (i) developed as part of a WPI project, program or activity that is the subject of an external WPI agreement; (ii) developed within the scope of employment by non-faculty WPI Employees; or (iii) developed as part of a WPI- Commissioned project. In these cases, intellectual property is owned by WPI.

However, dissemination of such video lectures to anyone other than students registered in the course in which the video lectures were created (“original course”) is subject to the following additional restriction for safeguarding privacy. If a classroom recording, whether on campus or virtual, is *created by* or *involves significant participation by* any person other than the instructor, then it is the instructor’s responsibility to maintain written permission from that person to reuse or

share that video recording beyond the original course. The written permission should include a duration of time for which the permission is valid. The term “significant participation” should be understood to mean participation to an extent that allows easy identification of the other person.

Common examples of situations where the above restriction applies are as follows:

- A TA conducts a classroom session that is recorded.
- A student makes a presentation or otherwise participates in a classroom session that is recorded.
- A non-WPI-affiliated guest speaker delivers a lecture that is recorded.
- During a classroom lecture or other activity recorded by the instructor, there is significant participation from students or a TA.

The use of copyrighted material in any content processed by the LMS and other IT tools must comply with state and federal laws on copyright. Here, “content” refers to all data such as curriculum materials provided on the LMS by instructors, video lectures provided through any of the IT tools, and assignment or exam submissions made by students. Users must obtain and retain permission from the copyright holder if use of the copyrighted material is not allowed by fair use or if permission for use of proprietary materials is required.

For creating classroom recordings, whether on campus or virtual, permission must be obtained and recorded from any non-WPI-affiliated guest speakers or participants in the classroom. The non-WPI-affiliated guest speakers or participants must be made aware of the recording and of the intended use(s) of the recording.

Similar considerations should be made when creating other video recordings, i.e., written permission must be obtained from significant participants other than the author of the video recordings before dissemination of the video. An example of such other video recordings is:

- Students create a video recording for a course assignment, and the recording happens to inadvertently capture other participants who can be easily identified in the video.

#### **F. User Responsibilities**

Users are responsible for:

- Ensuring the integrity and legality of the content uploaded to the LMS and other IT tools.
- Compliance with copyright laws, as discussed in the WPI Copyright Compliance Policy, for all content uploaded to the LMS and other IT tools.
- Obtaining permission from other participants in video recordings as discussed above.
- Ensuring that their recordings are properly transcribed and compliant with accessibility guidelines of the University.

#### **G. Privacy**

Video lectures created via classroom recordings, whether on campus or virtual, are intended for viewing through the LMS by students enrolled in that course. The same privacy considerations

that would apply in a physical classroom, particularly to student work, apply to classroom recordings. If any individual disseminates recorded student presentations, group discussions, or seminar classes beyond the original course, then that individual is responsible for obtaining consent as discussed in Section IV-E (Copyright and Intellectual Property). Instructors are not required to obtain student consent when broadcasting their own image and content, when no student participation is recorded or when insignificant student participation is recorded or the broadcast is directed to a defined course.

Personal data is stored and managed in accordance with [WPI Data Classification and Usage Policy](#)

Instructors may include a statement in the course syllabus that explicitly informs students of the potential for classroom recording and makes students aware of the ways in which the recorded material may be made available to other students.

### **H. Accessibility**

All video lectures disseminated through the LMS or other IT tools should be transcribed or captioned to align with the University's guidelines for accessibility. Instructors will be notified by the Office of Accessibility Services (OAS) when specific situations require accessible video lectures. The video recording / dissemination tools described in this policy, namely, Canvas Studio, Echo 360, and Zoom, all provide automatic captioning at no cost to the user. Whenever possible, captioning will be turned on by default in these tools, i.e., the user will have to take no action to provide captioning. For those unfamiliar with the tools, online documentation is available through the Academic Technology Center.

### **V. List of Related Policies**

- [WPI Acceptable Use Policy](https://www.wpi.edu/about/policies/acceptable-use) [https://www.wpi.edu/about/policies/acceptable-use]
- WPI Academic Policies and Procedures [https://www.wpi.edu/offices/registrar/policies-procedures]
- [WPI Intellectual Property Policy](https://www.wpi.edu/about/policies/intellectual-property) [https://www.wpi.edu/about/policies/intellectual-property]
- [WPI Access to User Electronic Information Policy](https://www.wpi.edu/sites/default/files/2020/09/18/FINAL_AccesstoUserElectronicInformation_9.16.2020%28CLEAN%29.pdf) [https://www.wpi.edu/sites/default/files/2020/09/18/FINAL\_AccesstoUserElectronicInformation\_9.16.2020%28CLEAN%29.pdf]
- [WPI Data Classification & Usage Policy](https://www.wpi.edu/sites/default/files/Data_Classification_and_Usage_Policy.pdf) [https://www.wpi.edu/sites/default/files/Data\_Classification\_and\_Usage\_Policy.pdf]
- [WPI Accessibility Guidelines & Resources for Faculty](https://www.wpi.edu/academics/faculty/accessibility-services/accessibility-guidelines-resources) [https://www.wpi.edu/academics/faculty/accessibility-services/accessibility-guidelines-resources]
- [WPI Confidentiality Policy](https://www.wpi.edu/sites/default/files/inline-image/Offices/Information-Security/Confidentiality%20Policy.pdf) https://www.wpi.edu/sites/default/files/inline-image/Offices/Information-Security/Confidentiality%20Policy.pdf
- WPI Copyright Compliance Policy [https://www.wpi.edu/about/policies/copyright-compliance]

- [US Department of Education Family Educational Rights and Privacy Act \(FERPA\)](https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html) [https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html]
- [US Copyright Act U.S.C. 101-810: Technology, Education, and Copyright Harmonization \(TEACH\) Act](https://www.copyright.gov/docs/regstat031301.html) [https://www.copyright.gov/docs/regstat031301.html]

#### V. **Revision History**

- Established by the WPI Faculty on May 10, 2022.

#### **Rationale:**

In the Faculty Meeting on May 8, 2018, the WPI Faculty approved the Learning Management System (LMS) Policy regarding the use of the Canvas LMS. In recent years, the use of videos in instruction has increased, especially for remote learning. The creation, storage, and dissemination of videos requires significant Information Technology (IT) resources and there is a need to establish a new policy regarding IT support for video lectures. Such a policy would have significant overlaps with the LMS Policy, e.g., regarding copyright, intellectual property, technical support, and maintenance procedures. The proposed Policy merges the existing LMS Policy with new provisions of IT support for video lectures.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Graduate Studies and Research (Prof. Korkin, Chair)

**Re:** Motion to allow double-counting in the BS/MS program within five years of completing the BS degree at WPI

**Motion:** The Committee on Graduate Studies and Research recommends, and I move that the BS/MS program and application process be broadened by allowing WPI alumni to pursue the MS degree, with the double counting option, within five years of completing the BS degree.

### **Description of Proposed Changes to the WPI Graduate Catalog:**

Pages 6-7 of AY 2021-22 graduate catalog:

(Additions in *italics*, deletions ~~struck through~~.)

### ***Combined Bachelor/Master's Program***

#### **Introduction**

WPI undergraduates *and WPI alumni* can begin work on a graduate degree by enrolling in a combined Bachelor's/Master's program. This accelerated course of study allows students to obtain an M.S. degree after only five years of full-time work (i.e., typically one year after completion of the B.S.). Students often obtain the B.S. and M.S. in the same field or department, but with careful planning some students complete the combined B.S./M.S. program in two different fields. Students are encouraged to review the various options available for pursuing the combined B.S./M.S. program within a specific department or program by visiting the relevant section within the Graduate Catalog. (Throughout this section, "M.S." will be used to refer to all Master's-level degrees; most students who complete the combined program obtain the M.S.).

#### **Planning Your Program**

Because B.S./M.S. students use some approved courses to satisfy the requirements of both degrees simultaneously, it is crucial for them to plan their curriculum early in their undergraduate career.

The specific course and MQP requirements for a B.S./M.S. program are determined individually, so students should consult with their own advisor as well as the graduate coordinator in the department in which they plan to pursue their M.S. degree early in their Junior year. This consultation, or series of consultations, should produce a slate of approved undergraduate courses that will be used for graduate credit. ~~Sometimes the instructors of these courses will ask B.S./M.S. students to complete additional work, or will otherwise hold them to higher standards of achievement.~~ Note: no undergraduate credit may be counted toward a graduate business degree.

A student's advisor and graduate coordinator will also determine what role the MQP will play in the B.S./M.S. program. Sometimes the MQP provides a foundation for a thesis. In cases where the B.S. and M.S. are not awarded in the same field, the MQP usually relates to the graduate program's discipline.

Once the specific course and MQP requirements have been established, students complete a Course Selection Form which is submitted to the relevant department(s) for approval. This written agreement constitutes the set of conditions that must be met for a student to complete the B.S./M.S. program. They are a plan for completing the requirements for both degrees and they will not supersede or otherwise obviate departmental and university-wide requirements for either degree. ~~The completed, signed form must be submitted to the Registrar before the student may matriculate in the combined program.~~

#### **How to Apply**

Students almost always apply for admission to the B.S./M.S. program in their Junior year, typically after they have established their curriculum and other program requirements and completed the Course Selection Form with their faculty advisors. WPI alumni can apply to the B.S./M.S. program within five years of completion of their WPI BS degree. Applications are submitted to the Office of Graduate Admissions and are processed with all other graduate applications. Once a decision has been reached, the Office of Graduate Admissions will notify the ~~student~~ *applicant*, usually within six weeks of receiving the application.

### **Program Requirements**

Only registered WPI undergraduates and WPI alumni within five years of completion of their BS degree may apply for admission to the combined B.S./M.S. programs. Students are considered undergraduates, no matter what courses they have completed, until they have met all of the requirements for the Bachelor's degree. In order to receive the B.S. and the M.S., all of the requirements for both degrees must be completed.

In most departments a student may take up to four years of uninterrupted study to complete the Master's portion of the B.S./M.S. program. There are exceptions, however, so students are advised to discuss their timetable with the appropriate advisor or graduate coordinator. Students who stop registering for classes for an extended length of time may be asked to petition the Committee for Graduate Studies and Research (CGSR) to continue their program. *Prior to graduation, the student must submit a form to the Registrar listing which courses, completed or in progress, will be counted towards the MS degree.*

### **Credit Equivalence and Distribution**

No more than 40% of the credit hours required for the Master's degree, and which otherwise meet the requirements for each degree, may be used to satisfy the requirements for both degrees. In some departments, students may not double-count more than 30% of their graduate credits. Consult the department entries in the graduate catalog for the requirements of your program. Double-counted courses are recorded on the transcript using the credit hours/units and grades appropriate at the graduate or undergraduate levels. For students in the combined B.S./M.S. program, approved undergraduate courses are assigned graduate credit with a conversion rate of 1/3 WPI undergraduate unit = 2 graduate credit hours, while graduate courses applied toward the undergraduate degree are awarded undergraduate units with a conversion rate of 1 graduate credit hour = 1/6 undergraduate unit.

### **Rationale:**

This modification will allow additional revenue stream for WPI by allowing students that opted to work upon the completion of their BS degree, to return to WPI to complete the MS degree. Many students would like to pursue the MS degree but due to various reasons must enter the workplace. These students will return to WPI for their MS if they are incentivized by allowing them the double-counting option for their MS degree. Allowing BS students to enter the MS program with double counting within five years would be a positive change for WPI undergraduate students. Especially in the current climate, having time to "catch one's breath" could be a significant benefit for those WPI students who wish to pursue an MS but need time to address personal needs before doing so. Without this 5-year grace period for the double counting, there may be internal and/or external pressure to take advantage of the BS/MS, putting students in a position that is negative for their mental health. Additionally, the financial burden placed on some families by COVID may place prospective dual degree students in a position where they are unable to pursue the program without undue hardship. This allows recovery time in this regard as well.

**Impact on Degree Requirements:** The broadening of the time extension will not affect WPI students.

**Resources and Anticipated Instructors:** No new resources are required.

**Implementation Date:** Implementation date for this action is the 2022-2023 academic year.



**Appendix 1**

**Consent Agenda Items**

(see next page)

**Date:** May 10, 2022  
**To:** WPI Faculty  
**From:** Committee on Academic Operations (Prof. Titova, Chair)  
**Re:** Motion to modify minors in Social Science

**Motion:** On behalf of the Psychological & Cognitive Sciences Program and the Department of Social Science & Policy Studies, the Committee on Academic Operations recommends and I move to modify the catalog description of “Minors in Social Science”, as described below.

**Description of the proposed modifications:**  
(additions are highlighted; deletions are struck through)

From p. 214 of the AY21/22 undergraduate catalog:

***MINORS in SOCIAL SCIENCE***

A Social Science Minor is available in any of the following disciplines:

Economics  
Sociology  
Political Science and Law  
~~Psychology~~  
System Dynamics  
Social Science

A minor in the Social Sciences consists of 2 units of academic activity satisfying the following conditions:

**1. Foundations**

Introductory level courses in any one or two of the following social science disciplines taught at WPI: economics (ECON), sociology (SOC), political science (and law) (GOV), ~~psychology (PSY)~~, and system dynamics (SD). Introductory courses are identified by the first digit of the course number, which must be a 1. The second digit of the course number indicates the discipline (1–economics, 2–sociology, 3–political science and law, ~~4–psychology~~, and 5–system dynamics).

**2. Applied Courses (At least 1 unit)**

Three or more higher level courses in the same social science discipline as the foundation courses, which involve applications or extensions of the material covered in the introductory courses and list the introductory courses as recommended background. High level courses have either a 2, 3, or 4 as the first digit of the course number. The capstone experience will consist of a paper in the last applied course taken. The paper must draw upon and integrate material covered in the previous courses. An IQP may provide the capstone experience and substitute for the last applied course provided that the IQP was advised or co-advised by a member of the Social Science & Policy Studies department, and contains appropriate social science analysis.

**3.**

If five or more of the six 1/3 units required for the minor are in a single social science discipline, the title of the minor will be “Minor” in that discipline.\* Otherwise the title of the minor will be “Minor in Social Science.” Examples of minor programs in economics, sociology, political science (and law), ~~psychology~~, system dynamics and interdisciplinary social science are available at the SS & PS department office. The

course selected for an interdisciplinary social science minor should follow an identifiable theme, such as the relationship between technology and society or social, political, economic or environmental policies. Students taking minors in the social sciences are expected to designate a member of the SS & PS department as their SS minor advisor, who will assist them in preparing a program that meets the requirements of the minor. Students can obtain assistance at the SS & PS departmental office in designating an advisor. Students completing any major in the Social Science and Policy Studies Department may not also complete a minor in social sciences.

\*In designating sociology the minor, the course PSY 1402: Social Psychology, can be counted as one of the five courses required in Sociology.

In designating the economics minor, at least 3 of the 5 required courses must be chosen from among the following four theory courses:

ECON 1110 Introductory Microeconomics;  
ECON 1120 Introductory Macroeconomics;  
ECON 2210 Intermediate Microeconomics; and  
ECON 2120 Intermediate Macroeconomics.

**Rationale:**

Revising the catalog language for the general Social Science Minor as outlined above will ensure that there is only one set of rules for completing the Psychology Minor while preserving the existing options for students to obtain minors in other social science disciplines.

**Resource Needs:** No new resources are required.

**Impact on Distribution Requirements and Other Courses:** Change in distribution requirements described in the motion.

**Implementation Date:** Academic year 2022-2023.

**Contact:** Prof. Jeanine Skorinko

**Date:** May 10, 2022  
**To:** WPI Faculty  
**From:** Committee on Academic Operations (Prof. Titova, Chair)  
**Re:** Motion to establish a minor in Psychological Science

**Motion:** On behalf of the Psychological & Cognitive Sciences Program and the Department of Social Science & Policy Studies, the Committee on Academic Operations recommends and I move that a Minor in Psychological Science be established, as described below.

**Description of the Proposed Minor in Psychological Science:**

The minor in Psychological Science allows students to extend their study of Psychology beyond the Social Sciences Requirement without majoring in Psychological Science. Students who, for personal or career purposes, want to develop an understanding of the science of human thought and behavior should consider a minor in psychology. The minor balances breadth and depth in psychology and requires a capstone research experience. Students interested in declaring a minor in Psychological Science may consult any of the following core members of the Psychological & Cognitive Sciences program: Prof. James Doyle, Prof. Richard Lopez, Prof. Erin Ottmar, Prof. Angela Rodriguez, Prof. Stacy Shaw, Prof. Jeanine Skorinko.

The Psychological Science minor consists of a total of two units of work in psychology distributed as follows:

**1. Foundations (2/3 unit)**

At least two foundational courses from the following list:

- PSY 1400 Introduction to Psychological Science
- PSY 1401 Cognitive Psychology
- PSY 1402 Social Psychology
- PSY 1404 Developmental Psychology
- PSY 1412 Mental Health
- PSY 1504 Strategies for Improving Cognitive Skills
- PSY 1800: Special Topics in Psychological Science (when available)

**2. Advanced courses (2/3 unit)**

At least two courses from the following list:

- PSY 2401 The Psychology of Education
- PSY 2406 Cross Cultural Psychology
- PSY 2407 Psychology of Gender
- PSY 2408 Health Psychology
- PSY 2410 School Psychology
- ENV/PSY 2500 Psychology for Sustainability
- MU/PSY 2501 Music and Mind
- PSY 2504 Human Sexuality
- PSY 2800, 3800, or 4800 Special Topics in Psychological Science

GOV/PSY 3000 Psychology and Law  
ID 3100 Teaching Methods in Mathematics and Science  
PSY4110 Psychophysiology  
NEU 501 Neuroscience  
PSY/SEME 501 Foundations of the Learning Sciences

### **3. Capstone research experience (1/3 unit)**

The capstone research experience may be satisfied by successful completion of one of the following three courses that include a significant research project among their requirements:

PSY 3400 Survey Design and Methodology  
PSY 3500 Experimental Design and Analysis  
PSY 4110 Psychophysiology

Alternatively, the capstone research experience may be satisfied by conducting independent research in a psychology laboratory under the direction of a Psychological Science faculty member. Independent research projects are registered under one of the following designations:

PSY 2900 Introduction to Research in Psychology  
PSY 3900 Research in Psychological Science  
PSY 4900 Advanced Research in Psychological Science

### **4. Free elective (1/3 unit)**

The sixth course may be chosen from courses approved for any of the above categories: Foundations, Advanced Courses, or Capstone Research Experiences.

Note: One psychology related course from another discipline may count under Free Elective with the permission of the Psychological and Cognitive Sciences Program Review Committee.

### **Rationale:**

WPI students have been receiving the degree designation of Minor in Psychology since AY97/98. However, the current rules that govern the awarding of the Psychology Minor are rather unique compared with other minor programs at WPI. These rules appear on p. 214 of the AY21/22 undergraduate catalog and are reproduced later in this proposal. They describe a mechanism by which a minor in social science may be called by a disciplinary title.

In the years since this mechanism for earning a Psychology Minor was established, the Psychological & Cognitive Sciences program has grown significantly, going from 1 to 6 core faculty and from offering 3 to 20 different undergraduate courses. Psychological and Cognitive Science faculty also now serve as core members of interdisciplinary graduate programs in Learning Sciences & Technologies and Neuroscience. There are currently 44 Psychological Science majors and 22 Psychology minors matriculating at WPI.

We believe WPI students interested in pursuing a Minor in Psychological Science will be better served going forward by defining a stand alone minor with separate requirements from the general Social Science Minor, as is currently the case for the Minor in Environmental & Sustainability Studies and the Minor in Law & Technology.

Compared with the existing approach to the Psychology Minor, the new minor provides a stronger and more focused program, increasing the value of the degree designation for students. It also provides clearer guidance for students by better defining their options for meeting the Minor requirements. In addition, the capstone requirement is both strengthened by identifying which specific courses meet the capstone requirements and broadened by including the laboratory research option.

Rather than being hidden in the fine print of the catalog, the new minor will also be more visible to students and improve our ability communicate the variety of opportunities available to students to engage in psychology in course work and laboratory research.

**Resource Needs:** No new resources are required.

**Impact on Distribution Requirements and Other Courses:** Change in distribution requirements described in the motion.

**Implementation Date:** Academic year 2022-2023.

**Contact:** Prof. Jeanine Skorinko

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Graduate Studies and Research (Prof. Korkin, Chair)

**Re:** Motion to remove the graduate certificate in Health Systems Innovation

**Motion:** On behalf of the School of Business, the Committee on Graduate Studies and Research recommends, and I move that the graduate certificate in Health Systems Innovation be removed, as described below.

**Description of Proposed Modifications to Graduate Catalog:**

(Text to be deleted ~~struckthrough~~)

***Graduate Certificates***

Graduate business certificates are designed for technical and business professionals seeking focused, in-depth knowledge within a specific area of technology management. Certificates include: Financial Technology; ~~Health Systems Innovation~~; Information Security Management; Information Technology; Innovation with User Experience; Supply Chain Analytics; and Supply Chain Essentials. Each certificate consists of 4 courses, which may be double-counted toward a related master's degree. Students may also customize their own graduate business certificate. For more information, please see <http://business.wpi.edu/+certificates>

**The current certificate:**

The School of Business has a 12-credit graduate certificate in Health Systems Innovation as follows:

Two Required Courses (6 credits):

- 1) BUS 545 Introduction to Health Systems
- 2) OIE 556 Health Systems Modeling and Improvement

Select Two Electives from the following (6 credits):

- 1) FIN 500 Financial Management
- 2) MIS 500: Innovating with Information Systems
- 3) MIS 584 Business Intelligence
- 4) OBC 505 Teaming and Organizing for Innovation
- 5) OIE 501 Operations Management
- 6) OIE 542 Risk Management and Decision Analysis
- 7) OIE 544 Supply Chain Analysis and Design
- 8) OIE 552 Modeling and Optimizing Processes
- 9) OIE 558 Designing and Managing Lean Six Sigma Processes
- 10) OIE 559 Advanced Prescriptive Analytics: From Data to Impact
- 11) DS 501 Introduction to Data Science
- 12) SYS 501 Concepts of Systems Engineering

We have not offered either of the two required courses, BUS545 and OIE556, in several years due to lack of student interest and therefore are also dropping them. We no longer have the faculty

bandwidth to offer either course. We have removed the certificate from our website. Graduate certificates are not listed by name in the graduate catalog.

**Rationale:**

We do not have the student interest or the faculty resources to offer the two required courses, BUS545 and OIE556, within the Health Systems Innovation certificate. We have discussed this motion with ACE and they do not have an audience for this certificate and support this motion.

**Impact on Degree Requirements:** Dropping the Health Systems Innovation graduate certificate will have no impact on any students' degree requirements.

**Implementation Date:** Implementation date for this action is the 2022-2023 academic year.



**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Graduate Studies and Research (Prof. Korkin, Chair)

**Re:** Motion to change course title and description for MKT 565 Digital Marketing and MKT 569 Product and Brand Management

**Motion:** On behalf of the WPI Business School, the Committee on Graduate Studies and Research recommends, and I move that course titles and course descriptions for MKT 565 and MKT 569 be modified, as described below.

**Description of the proposed modifications:**

*Current course titles and descriptions:*

*MKT 565 Digital Marketing (3 credits)*

The rapid evolution of technology has led to increasingly well-informed buyers who are connected, communicative, and more in control than ever. This course discusses the theory and practice of digital marketing and its role in building relationships and, ultimately, driving sales. It examines digital technologies and their impact on business models, the marketing mix, branding, communication strategies, and distribution channels. Emphasis is placed on contemporary topics that face today's marketing managers – including online lead generation, search, social networking, and ecommerce – and their application within a comprehensive, integrated digital marketing strategy. The course considers the opportunities and challenges faced in business-to-consumer and business-to-business markets. It covers latest research, current practices, and hands-on project work.

*MKT 569 Product and Brand Management (3 credits)*

The conversion of technology into new products requires an understanding of how to develop a meaningful value proposition and integrate the development of a product with a marketing strategy that creates brand equity. This course will focus on the management of products, the implications of other marketing decisions on product and brand management, the management of product lines within the organization, including introduction, growth, and market exit. (Prerequisite: MKT 500 or equivalent content, or consent of instructor.)

*Revised course titles and descriptions:*

*MKT 565 Digital and Social Media Marketing (3 credits)*

The rapid evolution of technology has led to increasingly well-informed buyers who are connected, communicative, and more in control than ever. This course discusses digital technologies and their impact on the marketing mix, branding, communication strategies, and distribution channels. Emphasis is placed on contemporary topics that face today's marketing managers – with a focus on how social media can be employed to build brands, conduct business, support causes, rally the masses, and create and maintain customer relationships. Students who have previously taken MKT 565 (Digital Marketing) or MKT 598 (Special Topics: Social Media Marketing) cannot earn credit for taking MKT 565 (Digital and Social Media Marketing).

### MKT 569 *Product Management* (3 credits)

A successful product management process involves vision, strategy, and product development and integrating these with an effective go-to-market strategy. In this project-based course, students will develop knowledge of product management concepts and frameworks, learn to work with product management tools, and build the skills necessary to become effective product managers.

#### **Rationale:**

The Business School currently offers MKT 565 (Digital Marketing) and an experimental course, MKT 598 (Social Media Marketing). Given that we do not offer the MS (Marketing and Innovation) degree and given the current diverse student audience enrolling in our graduate programs, it is not efficient to offer two separate specialized courses. So, instead of having two separate courses with few students, it would be efficient to merge the two together. In addition, digital marketing includes social media marketing and students are more interested in the social media marketing aspects of digital marketing. Therefore, the course is re-designed to offer an introduction to digital marketing and dive deeper in social media marketing.

The current students who enroll in MKT 569 are professionals and executives working in STEM roles and who aspire to shift careers in the field of product management. Keeping in mind the career interest of students, product management is the core focus of this course. Brand management is more marketing-focused and is covered as a part of one module in the course. So, it does not add any value to the course by being offered in the title and description. Therefore, the new title and description clearly explain what is covered in the course which is designed with students' career interest in mind. In addition, no prerequisites are required for this course.

**Impact on Degree Requirements:** This change will not have any such impacts.

**Resources and Anticipated Instructors:** No new resources are needed.

**Implementation Date:** Implementation date for this action is the 2022-23 academic year.

**Date:** May 10, 2022

**To:** WPI Faculty

**From:** Committee on Graduate Studies and Research (Prof. Korin, Chair)

**Re:** Motion to clarify and modify requirements for M.S. degree in ECE

**Motion:** On behalf of the ECE department, the Committee on Graduate Studies and Research recommends and I move that the requirements for the M.S. degree in ECE be clarified and modified as described below.

**Description of Proposed Modifications to Graduate Catalog:**

***Current description of the Non-Thesis M.S. Option in ECE:***

(appearing in the first column of Page 100 of the AY 2021-22 catalog):

Although the thesis is optional for M.S. ECE students not financially supported by the department, and there is no thesis option available for M.Eng. ECE or M.Eng. PSE students, all M.Eng. and M.S. students are encouraged to include a research component in their graduate program. A directed research project, registered under the designation ECE 598, involves a minimum of 3 credit hours of work under the supervision of a faculty member. The task is limited to a well-defined goal. Note that the Graduate Program committee will not allow credit received under the thesis designation (ECE 599) to be applied toward an M.Eng. ECE degree, M.Eng. PSE degree, or non-thesis M.S. ECE degree.

***Proposed description of the Non-Thesis M.S. Option in ECE:***

Although the thesis is optional for M.S. ECE students not financially supported by the department, and there is no thesis option available for M.Eng. ECE or M.Eng. PSE students, all M.Eng. and M.S. students are encouraged (but not required) to include a research component in their graduate program. A directed research project, registered under the designation ECE 598, provides an opportunity to conduct focused research under the direct supervision of an ECE faculty member. Credits received under the directed research designation (ECE 598) can be used to satisfy the M.Eng. ECE, M.Eng. PSE, and M.S. ECE degree requirements with a grade of C or better. Note that credit received under the thesis designation (ECE 599) may not be applied toward an M.Eng. ECE degree, M.Eng. PSE degree, or non-thesis M.S. ECE degree.

**Rationale:**

This change will clarify the requirements of the non-thesis M.S. ECE degree as follows:

- Makes it clear that a directed research project is not required for an MS or MEng.
- Avoids putting a minimum credit requirement on a directed research experience, thus providing more flexibility to students who pursue directed research opportunities in addition to coursework.
- Makes it clear that directed research credits count toward an MS or MEng degree but thesis credits do not count if the student is doing an MEng or non-thesis MS.

**Impact on Degree Requirements:** None

**Resources and Anticipated Instructors:** None

**Implementation Date:** Implementation date for this action is the 2022-2023 academic year.

**Appendix 2**

**DRAFT Resolution Calling on  
Worcester Polytechnic Institute to Divest from Fossil Fuels**

(see next page)

# DRAFT Resolution Calling on Worcester Polytechnic Institute to Divest from Fossil Fuels

*Sponsor: The Worcester Polytechnic Institute Faculty*

**Whereas** climate change is a global crisis that is [a paramount threat](#) to the lives and livelihoods of current and future generations necessitating bold, immediate action;

**Whereas** the Intergovernmental Panel on Climate Change [stated](#) that global greenhouse gas emissions, the majority of which are produced by the combustion of fossil fuels, must be reduced to net zero by 2050 to avoid the worst impacts of climate change;

*Beyond simply exacerbating natural disasters and creating unprecedented displacement of vulnerable people, climate change is one of the leading causes of the mass species extinction crisis and mounting biodiversity losses, and [poses a substantial threat](#) to global food supplies, to world peace, and to the global economy*

**Whereas** disease pandemics, like that of COVID-19, will likely occur [not only more frequently](#), but also with [more severity](#), in part as a result of climate change;

*These two types of catastrophe will inevitably compound and collectively hinder effective response to either of them.*

**Whereas** historically, institutions of higher education, and particularly the nation's most visible and influential institutions, have been effective conduits for social change on issues of moral uncertainty;

*This is exemplified through [rejection of the tobacco industry](#) (for which the discourse closely parallels that of the fossil fuel industry) in the 1990's, and [South African apartheid](#) before that. Experts acknowledge that [divestment at scale is an effective way to combat climate change](#);*

**Whereas** investing in the fossil fuel industry exacerbates the extreme social and racial inequalities our institution strives to help solve.

*Climate change perpetuates inequality between developed and developing nations by placing most of its consequence on nations that have contributed the least. Even [within developed nations](#), climate change [aggravates existing class and racial inequities](#), as evidenced in part through respiratory illnesses and [cancers succeeding the building of refineries](#) and power plants.*

**Whereas** the fossil fuel industry bears significant responsibility for climate change-- 100 companies are responsible for the emission of roughly [71% of the world's carbon dioxide](#)-- the most prevalent greenhouse gas, since anthropogenic climate change was officially recognized;

**Whereas** the fossil fuel industry is using the COVID-19 crisis [to successfully lobby for](#) environmental regulation rollbacks and multi-billion dollar government bailouts, on top of the trillions of dollars in taxpayer money they already receive;

*While the fossil fuel industry continues profiteering in the midst of this unprecedented crisis, [there has been less stimulus](#) offered for renewable energy sources.*

# DRAFT Resolution Calling on Worcester Polytechnic Institute to Divest from Fossil Fuels

(cont'd)

**Whereas** despite these immense harms, the fossil fuel industry has led [a concerted, multi-decadal campaign to misinform the public](#), fund junk science, and sow [doubt about the urgent reality of climate change](#);

*These disinformation campaigns mimic those of the tobacco industry (which saw widespread divestment on moral grounds) and are in direct opposition to our institution's values of turning knowledge into action, the betterment of society, and innovation.*

**Whereas** [student body presidents from the Big 10 Conference](#) and the [Ivy League](#) and diverse [faculties from Harvard University](#) to the [University of South Carolina](#) each passed a unanimous resolution to endorse divestment of their universities' endowment funds from fossil fuels in response to the tremendous harms that these companies pose to student and alumni wellbeing;

**Whereas** Worcester Polytechnic Institute emphasizes student wellbeing as a major pillar of its most recent strategic plan, [Lead with Purpose](#), while describing climate change as a major challenge to the planet. Worcester Polytechnic Institute can support both initiatives by joining other universities in their decision to divest;

**Whereas** a university, known for its ability to “think globally, act locally,” must consider the implications of its own local actions within a global context and climate crisis;

**Whereas** [coursework](#), [students projects](#), and student/faculty [research](#) at Worcester Polytechnic Institute are dedicated to sustainability, the university cannot truly claim to be acting with environmental interests in mind while simultaneously investing in the fossil fuel industry;

**Whereas** Worcester Polytechnic Institute demonstrated a resolve to evaluate its financial practices by signing onto the [Principles for Responsible Investing \(PRI\)](#), a United Nations-supported framework and reporting tool for responsibly managing investments in September 2021;

*Worcester Polytechnic Institute agreed to abide by [six principles](#) to include environmental, social, and governance issues in investment analysis and decision making, as well as being active owners in practice.*

**Whereas** the Principles for Responsible Investing [discuss that divestment](#) “communicate[s] to the wider market that the investor believes the targeted company’s long-term strategy is likely to remain misaligned with relevant sustainability performance thresholds”;

*Fossil fuel companies contribute significantly to the climate crisis and are contraindicated with an ecologically sustainable economy. Worcester Polytechnic Institute must divest from fossil fuel companies and reinvest in companies that support a renewable economy. Making no change and remaining invested in fossil fuels cannot meet the standards agreed upon by this university.*

# DRAFT Resolution Calling on Worcester Polytechnic Institute to Divest from Fossil Fuels (cont'd)

**Whereas** Worcester Polytechnic Institute has been endowed with \$505 million in support of advancing technical progress;

*Fossil fuel investments do not demonstrate scientific progress, but rather glue us to the energy systems of 19th century industrialization. New investments in renewable energy and sustainable technologies are necessary to truly uphold our commitment to technical progress.*

**Whereas** divesting is a crucial component of maintaining sustainable long-term financial growth of endowment funds;

*In fact, [Brown University has committed to divestment](#), asserting “The decision to halt investments in fossil fuel extraction companies reflects the view that, as the world shifts to sustainable energy sources, investments in fossil fuels carry too much long-term financial risk.”*

**Whereas** in addition to the clear moral imperative upon which Worcester Polytechnic Institute must act, it is [increasingly financially irresponsible](#) to invest in the fossil fuel energy sector;

*[Investment experts](#), from academics to BlackRock to [CNBC's Jim Cramer](#), emphasize that fossil fuel investments are “in the death knell phase” and are becoming increasingly unappealing as an asset, in part because of social movements like the push for divestment.*

**Whereas** for reasons both moral and financial, institutions across the world are beginning to act on divestment from fossil fuels;

*Peer universities like the [University of California system](#), among other schools, have committed to divest on [solely financial grounds](#), while others like [Georgetown University](#) have made the same decision as a part of their commitment to sustainability. Likewise, top universities have reaffirmed their core values through divesting, such as [Harvard University's decision to divest](#) based on their responsibility “as fiduciaries to make long-term investment decisions that support our teaching and research mission.” These universities are among [a growing list](#) of institutions acting on divestment, including but not limited to [US cities](#), philanthropies like the [Rockefeller Foundation](#) (whose wealth stems from fossil fuels), [the Vatican](#), and even [entire countries](#).*

**Whereas** campaigns by the Students for a Just and Stable Future (2012-2014) and divestWPI (2019-present) have demonstrated students’ [support in favor of divestment through letters](#) and discussion with administration, in conjunction with faculty support;

*The issue has not been acted upon publicly while other universities join the list of divested colleges routinely.*



# DRAFT Resolution Calling on Worcester Polytechnic Institute to Divest from Fossil Fuels (cont'd)

**Whereas** divesting is both a commitment and a process;

*Divesting Worcester Polytechnic Institute's endowment will take a few short years in practice; however, publicly committing to developing a divestment plan and timeline will not. Making the promise to implement a cleaner investment strategy would be the first step along the road to a better future.*

**Whereas** we, as educators, taxpayers, and citizens of the world, whose communities are already feeling the impacts of climate change, and whose future is in jeopardy, feel both a responsibility and a right to demand that our university does better—to demand that our institution is not complicit in the intentional harms of fossil fuel companies; and

*With our peers already suffering the plights of drought-induced [forest fires](#), [civil unrest](#), [displacement due to rising sea levels](#), and [urban pollution](#), we feel compelled to call upon our university to take responsibility for the well being of their constituents and lead the nation and the world towards a brighter future.*

**Whereas** given the institutional power we wield, the corruption and societal negligence displayed by fossil fuel companies, and the unparalleled havoc that the climate crisis promises to deliver;  
**now, therefore, be it**

**Resolved**, that the Worcester Polytechnic Institute Faculty:

1. Acknowledges the severity of climate change, and further, the need for swift action to prevent the earth's average temperatures from warming more than 1.5 °C to ensure a habitable future;
2. Hereby advocates that Worcester Polytechnic Institute commits to ceasing all new investments in the fossil fuel industry (as defined below) via a public declaration made in FY2023;
3. Calls on the leadership of Worcester Polytechnic Institute to commit to creating a divestment plan in FY2023, with full divestment of endowment funds from the fossil fuel industry by FY2026 at the latest;
4. Calls on the Division of Finance & Operations to develop a plan for pursuing the highest possible ratings under the Principles for Responsible Investment, with annual communications on the fulfillment of the plan and current ratings to the Student Government Association and the Green Team

# DRAFT Resolution Calling on Worcester Polytechnic Institute to Divest from Fossil Fuels

(cont'd)

## **SIGNATORIES:**

Worcester Polytechnic Institute Faculty

### **Definition of Fossil Fuel Divestment:**

While there is no universally accepted definition for what it means to be divested from fossil fuels, in alignment with guidelines outlined by 350.org, we believe that a fossil fuel free portfolio includes but is not limited to:

- No investments (direct or indirect) in any of the [top 200 fossil fuel companies](#) by size of reserves.
- No investments (direct or indirect) in any company that explores for, extracts, processes, refines, or transmits coal, oil, and gas.
- No investments (direct or indirect) in any utilities whose primary business function is to burn fossil fuels to produce electricity.

For more information regarding carbon risk and fossil fuel divestment, explore [this comprehensive list of resources](#) compiled by the Intentional Endowments Network and [this guide to Fossil-Free Investing](#) by Trillium Asset Management.

**For inquiries, reach out to [gr-divestWPI@wpi.edu](mailto:gr-divestWPI@wpi.edu)**

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### **Acknowledgements:**

This Resolution was authored by DivestWPI, Student Government Association, and the Faculty at Worcester Polytechnic Institute.

This Resolution was inspired by the [Ivy League Universities Resolution for Fossil Fuel Divestment](#) written by the [Student Sustainability Association at Penn](#) and the [University of Pennsylvania Undergraduate Assembly](#), and passed by the student body presidents of the universities that make up the Ivy League universities. Their Resolution was also inspired by [Big 10 Schools Divestment Resolution, which was passed](#) by the student body presidents of the universities that make up the Big 10 Conference.