

**WORCESTER POLYTECHNIC INSTITUTE**  
**October 3, 2019**

**To:** The WPI Faculty

**From:** Tanja Dominko, Secretary of the Faculty

The second Faculty meeting of the 2019-2020 academic year will be held on **Thursday, October 3<sup>rd</sup>, 2019 at 3:15 pm in Olin Hall 107.**

- |                                                                 |                          |
|-----------------------------------------------------------------|--------------------------|
| 1. Call to Order                                                | T. Dominko               |
| • Approval of the Agenda                                        |                          |
| • Approval of the Consent Agenda and the Minutes from 9-13-2019 |                          |
| 2. Announcements                                                | T. Dominko               |
| 3. President's Remarks                                          | L. Leshin                |
| 4. Provost's Remarks                                            | W. Soboyejo              |
| 5. Memorial Resolutions:                                        |                          |
| • Prof. William D. Hobey                                        | K. Wobbe                 |
| • Prof. Frederick L. Hart                                       | T. El-Korchi             |
| 6. Reports                                                      |                          |
| • WPI Online – Historical Context and Current State             | R. LeBlanc/<br>S. Taylor |
| 7. New Business                                                 |                          |
| 8. Old Business                                                 |                          |
| 9. Closing Announcements                                        |                          |
| 10. Adjournment and Reception at the Quorum                     |                          |

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WORCESTER POLYTECHNIC INSTITUTE  
Faculty Meeting Minutes  
September 5, 2019

**Summary:**

1. Call to Order
2. Announcements
3. President's Remarks
4. Provost's Remarks
5. Committee Business: CAO; CGSR; COG
6. Introduction of New Faculty
7. Adjournment

**Detail:**

1. Call to Order

The first Faculty meeting of the 2019-2020 academic year was called to order in Olin Hall 107 by **Prof. Dominko (BBT)**. She reminded everyone that the meeting is being recorded for the purpose of accuracy in taking minutes. The agenda and consent agenda (including the minutes from the May 2, 2019 Faculty meeting) were approved.

2. Announcements

**Prof. Dominko** spoke about this year being a very special year in the history of Faculty Governance at WPI. It was 50 years ago that a group of WPI faculty members formed to establish a chapter of AAUP, strengthening the protection and preservation of tenure and academic freedom. In addition, at the April 1969 Faculty meeting, the group brought forth a proposal for Faculty Constitution emphasizing the responsibility of the Faculty in the life of the Institute. She shared that this was a critical milestone, worthy of celebration. The Board approved the Faculty Constitution on June 2, 1973. She announced that last year, the Faculty also renewed our commitment to AAUP, and invited the first WPI elected President of that chapter to speak about this topic.

Prof. John Sanbonmatsu (HUA), elected President of the American Association of University Professors WPI chapter, stated that the AAUP was founded in 1915 by Economist Edward Ross and American Philosopher John Dewey, with the purpose of defending academic freedom. Prof. Sanbonmatsu introduced his fellow officers: Prof. Glenn Gaudette (Vice-President), Prof. David Medich (Acting Secretary), Prof. Huong Higgins and Prof. Bethel Eddy (Officers At-Large). He stated that the chapter aims for 100% faculty participation. AAUP maintains the gold standards for university norms and policies nationally and serves as a resource for Faculty in a variety of ways, including gathering data and advocating for gender equity in pay, advocates for contingent Faculty and is the most robust organization defending tenure and academic freedom in the United States. Prof. Sanbonmatsu encouraged Faculty members to join the organization, and invited anyone with questions to email him ([js@wpi.edu](mailto:js@wpi.edu)).

Prof. Dominko spoke about the past year being a challenging one for both the Faculty and the Administration regarding the role of Faculty in shared Governance, Faculty's roles, responsibilities and authority and academic freedom, as described in the Faculty Handbook. She stated that at the end of all the process and discussions, the Board of Trustees, Faculty and Administration came away with a

renewed commitment, and she has hopes that those discussions, albeit difficult at the time, continue and make WPI a better place.

Prof. Dominko stated that the main item on this year's faculty agenda remains the status of NTT Faculty members. The composition of the Faculty discussions began seven years ago, targeting inequality between a variety of different titles, ranks and classes of Faculty brought to the surface a proposal whereby NTT Titles were given as opposed to Staff titles. She announced that the Task Force, Co-Chaired by Prof. Richman (TTT Faculty), Prof. Heilman (NTT Faculty) had been addressing outstanding issues of NTT Faculty over the past year and has drafted a recommendation that will be circulated among TTT and NTT faculty before it is presented for a discussion at a faculty meeting.

Prof. Dominko announced that at the May Faculty meeting, the proposal for Global School was endorsed, and that a ballot for the Search Committee for the Dean of the Global School would be distributed soon.

COG will also be discussing proposals for new academic departments; guidelines for academic administrative appointments (Associate/Assistant Deans); and professional development opportunities for Faculty who may wish to transition to an Administrative appointment.

She stated that the Faculty and that Faculty Governance at WPI are strong and that we all should be proud to be members of WPI community.

She then delivered a message to her incoming colleagues:

“No two of us are the same, nor should we be. Our individual differences are actually our strongest assets in the pursuit of collective, not individual, excellence. The value that each one of us brings to the university is not measured by the titles we hold. It is measured much more accurately by the contributions we make in our respective roles every day to our collective success. Each one of us without exception adds a note to an artfully composed piece of music. If one is removed, or even misplaced, or expected to play a role that it was not suited to, then the music no longer flows smoothly.

So, I welcome all of you here today at the start of a new academic year – especially those of you who are brand new to our campus. Throughout the year, take time to listen to your colleagues, think big thoughts, and speak up even if your ideas seem farfetched.

As your Secretary of the Faculty, I promise nothing more than to do the same!”

### 3. President's Remarks

**President Leshin** presented a portion of the information that will be spoken about in the Town Hall Meeting (See **Addendum #1** attached to the file copy of these minutes). She spoke about priorities this year, amongst them the Provost search, continuation of Workday implementation, as well as breaking ground on the new academic building. President Leshin also spoke about the upcoming institutional accreditation, Global School, and the intent to embark on developing a new strategic plan. She identified four broad areas of emphasis for the new strategic plan: student access and success, impact of global education and projects, purpose driven research, and the culture of WPI. As a main talking point, she stressed the need to address the cost of attendance at WPI. The President presented data that compared tuition costs between WPI and five similar schools stressing the need to make attendance for students at WPI more affordable. She stated that this issue will be addressed this year and will solicit community suggestions.

#### 4. Provost's Remarks

**Provost Soboyejo** reflected on the state of higher education at this time, consisting of the value proposition of higher education as well as the impact of past technologies on education. He also emphasized the opportunity of digital technology to be used in education as a part of the strategic plan. The Provost spoke about the need for everyone to get involved in order to transform WPI from good to great.

#### 5. Committee Business

##### CAO

**Prof. Strong** (FBS), for the Committee on Academic Operations, moved to approve the September 1, 2019 undergraduate student graduation list for September 2019 graduation. (See **Addendum #2** attached to the file copy of these minutes).

**The motion passed.**

##### CGSR

**Prof. Fischer** (ME), for the Committee on Graduate Studies and Research, moved to approve the September 2019 graduate student graduation list for September 2019 graduation. (See **Addendum #3** attached to the file copy of these minutes).

**The motion passed.**

##### COG

**Prof. Gaudette** (BME), for the Committee on Governance, moved that the Guidelines for Searches to fill Academic Administrative Positions (Faculty Handbook – Park Two, section I.ii) be suspended for the search for the first Dean of the Global School, such that, when the search committee is formed, it be constituted with balanced representation of TTT and NTT faculty members. This would be a two-step process, with a nominating ballot, with all full-time tenured, tenure-track and non-tenure-track faculty members on the ballot and eligible to vote. The nominating ballot would then be followed by an election ballot, including the six top vote-getters, with three members being elected by the instant run-off method. Prof. Gaudette explained that the intent was: once the search committee is formed, it will have the three elected faculty members, one faculty member appointed by COG, one faculty member appointed by the Provost, two members (one of which must be an academic) appointed by the President, two students jointly appointed by the President and COG, and the President, Provost and COG will collaborate on all of their appointments to ensure balanced representation of tenured, tenure-track and non-tenure track faculty and to select the Chair of the Search Committee.

He stated that it is the responsibility of the Search Committee to ensure all faculty members, administration and staff who would interact in a substantive way with the appointee, be given the opportunity to review the candidate's resume, credentials, meet with the candidate, ask questions of the candidate and provide both written and oral feedback to the committee. The search committee may invite members of the staff to meet with the committee and/or serve as resources for the search. He stressed that the staff would have the opportunity to meet with the candidate.

Prof. Dominko clarified that this was not a motion to change the language in the Faculty Handbook, but rather to suspend the rules for the purpose of this particular search only. Dean McNeill asked for confirmation that the nominating ballot would include all TTT and NTT faculty, and that the six top vote-getters could be any combination of those individuals. Prof. Gaudette confirmed that, and expressed that COG, the President and the Provost would do their best in appointing individuals to

ensure a balance in the final search committee. Dean King asked about a gender balance. Profs. Dominko and Gaudette stated that hadn't been discussed, however Prof. Dominko stated that it is always attempted to balance these committees, not only with gender, but also affiliation with departments and programs as well.

**The motion passed.**

#### 6. Introduction of New Faculty

Provost Soboyejo introduced Deans Jean King (Dean of Arts & Sciences), John McNeill (Interim Dean of Engineering), Steven Taylor (Interim Dean of the Foisie Business School), Kent Rissmiller (Interim Dean of IGSD).

Dean Jean King (Dean, Arts & Sciences) introduced

Prof. Joseph Duffy (Department Head, BBT), introduced

Prof. Natalie Farnie

Prof. Inna Nechipurenko (officially starting in January 2020)

Prof. Arne Gericke (Department Head, CBC), introduced

Prof. Patricia Musacchio

Prof. Craig Wills (Department Head, CS), introduced

Prof. Daniel Reichman

Prof. Ali Yousefi

Prof. Michael Engling

Prof. Jonathan Weinstock

Prof. Jing Jao (Department Head, RBE) introduced

Prof. Greg Lewin

Prof. Jennifer deWinter (Department Head, IMGD) introduced

Prof. Keith Zizza

Prof. Kathryn Moncrief (Department Head, HUA) introduced

Prof. Holger Droessler

Prof. Yunus Telliel

Prof. Shana Lessing

Prof. Luca Capogna (Department Head, MA) introduced

Prof. Oren Mangoubi

Prof. Sam Walcott

Prof. Fangfang Wang

Prof. Mihnea (Mike) Stefan Andrei

Prof. Gonzalo Contador Revetria

Prof. Chaozhen Wei

Prof. Dominko asked for a ten minute extension to the meeting.

**The motion to extend passed.**

Prof. Duncan Wright

Prof. William Sanguinet

Prof. Herman Servatius

Prof. Nancy Burnham (PH) introduced

Prof. Hridaya Shah

Prof. Seyed (Reza) Zekavat

Dean Jean King introduced

Prof. Crystal Brown

Prof. Janice Kooken

Dean John McNeill (Dean, Engineering Ad Interim) introduced

Prof. Kristen Billiar (Department Head, BME) introduced

Prof. Adam Lammert

Prof. Carrick Eggleston (Department Head, CEE)

Prof. D. Rick Brown (Department Head, Ad Interim, ECE) introduced

Prof. Sundari Ramabhotla

Prof. John Sullivan (Associate Department Head, ME) introduced

Prof. Xiangrui Zeng

Prof. Zachary Taillefer

Dean Steven Taylor (Dean Ad Interim, Foisie School of Business) introduced

Prof. Diane Strong (Department Head Ad Interim, Foisie School of Business) introduced

Prof. Kenny Ching

Prof. James Ryan

Prof. Robert Sarnie

Prof. Omid Shahvari

Dean Kent Rissmiller (Dean Ad Interim, IGSD) introduced

Prof. John-Michael Davis

Prof. Joseph Doiron

Prof. Sarah Stanlick

Prof. Sarah Strauss

## 7. Adjournment

Meeting was adjourned at 5:05 pm by **Prof. Dominko**.

Respectfully submitted,

Tanja Dominko

Secretary of the Faculty

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

1. Addendum #1 President's Forward Together Presentation – September 5, 2019
2. Addendum #2 CAO, September 2019 Undergraduate Student Graduation List – September 5, 2019
3. Addendum #3 CGSR, September 2019 Graduate Student Graduation List – September 5, 2019
4. Addendum #4 COG, Motion to Suspend the Rules – September 5, 2019

## **Appendix: Consent Agenda Motions**

**CAO** Change HUA 2230 to INTL 2520

**CAO** Change HI 1322 Title

**CAO** Change INTL 4100 Description

**CAO** Delete HUA 2441

**CAO** Delete AB2542

**CAO** Delete HI 2325

**CAO** Add INTL 2410

**CAO** Add INTL 2420

**CAO** Add INTL 2510

**CAO** Add INTL 1300

**CAO** Add INTL 2310

**CAO** Add HI 2930

**CGSR** Revise RE graduate Certificate



**From: Committee on Academic Operations (prof. Strong, Chair)**

Summary narrative for CAO Motions

The following changes create a common framework for WPI's area studies courses. This overall structure and the description of individual courses will make these opportunities more visible to students. Several courses change course prefix to INTL to provide a coherent curriculum of courses with area expertise. As indicated in the specific rationale in the CAO-formatted motion for each individual course, several courses have been under-enrolled and will be more visible to students with the new designation. This change should result in more students enrolling in a course from which they would benefit. Several courses have minor changes to course number, title or description. Three existing courses are replaced by three courses that provide broader overviews of the same region. Three new courses are proposed to support the Latin America initiative, an interdisciplinary effort to develop curricular and co-curricular resources for this region of the world.

Since HI, INTL, and HU are all in the same cluster for breadth and depth within the humanities and arts requirement, these changes have no impact on completion of this degree requirement. These changes have no impact on major distribution requirements. Where noted in each motion, several courses will substitute for existing courses in lists of related courses for particular programs such as International and Global Studies.

Together, these courses will provide excellent preparation for students preparing for or returning from WPI project programs as well as forming pathways with existing courses for students to complete the humanities and arts requirement.

Change number (title and descriptions remain the same):

HU 2230. Russia Ready: Language and Cultural Context. Cat. II

Change title and description:

HI 1322. Introduction to European ~~Cultural~~ History. Cat. I

Change description:

INTL 4100. Senior Seminar in International and Global Studies. Cat. I.

Drop:

HU 2441. African History and Culture. Cat II

AB 2542. The Culture of Arabic-Speaking Countries. Cat. I

HI 2325. Modern France. Cat. II

Add:

INTL 2410. Modern Africa. Cat II

INTL 2420. Middle East, North Africa and Mediterranean. Cat. I

INTL 2510. Contemporary Europe: Union and Disunion. Cat. II

Add new Latin American initiative courses:

INTL 1300. Introduction to Latin America. Cat I

INTL 2310. Modern Latin America. Cat. II

HI 2930. Topics in Latin American History. Cat. II

Details and rationales are included below for each course.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to change the course number for HU 2230. RUSSIA READY: LANGUAGE AND CULTURAL CONTEXT to INTL 2520 approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that the course number for HU 2230. RUSSIA READY: LANGUAGE AND CULTURAL CONTEXT be changed as described below.

**Existing title, description and course offering schedule:**

HU 2230. RUSSIA READY: LANGUAGE AND CULTURAL CONTEXT. Cat. II (1/6 unit)

This course will introduce students to the fundamentals of Russian language, current events and culture. Students will be expected to steadily build essential vocabulary, learn basic grammar and forms of address; they will also review major events of Russian history from the rule of Peter the Great to the Russian Revolution and the Soviet era developments - all of which are key to understanding of Russia today. All through the course, students will have assigned media topics ranging from the student life in Russia, to aerospace exploration to agricultural breakthroughs and political turmoil. Materials under study will include Russian language textbooks and grammar guides, current media, and film. This course is appropriate for students interested in all WPI's project centers in Eastern and Central Europe. This course will be offered in the summer term in on-line format. Students may not receive credit for both HU 2230 and HU 223X.

**Proposed title, description, and course offering:**

INTL 2520. RUSSIA READY: LANGUAGE AND CULTURAL CONTEXT. Cat. II (1/6 unit)

This course will introduce students to the fundamentals of Russian language, current events and culture. Students will be expected to steadily build essential vocabulary, learn basic grammar and forms of address; they will also review major events of Russian history from the rule of Peter the Great to the Russian Revolution and the Soviet era developments - all of which are key to understanding of Russia today. All through the course, students will have assigned media topics ranging from the student life in Russia, to aerospace exploration to agricultural breakthroughs and political turmoil. Materials under study will include Russian language textbooks and grammar guides, current media, and film. This course is appropriate for students interested in all WPI's project centers in Eastern and Central Europe. This course will be offered in the summer term in on-line format. Students may not receive credit for HU 2230 or HU 223X and INTL 2520.

**Explanation of Motion:** This motion replace HU with INTL as the course prefix. The course number accommodates the numbering system for INTL courses and enhances the visibility of this course to students.

**Rationale:** This change enhances the visibility of the course for students and strengthens the coherence of our curricular offerings in International and Global Studies. It is the same course with a new number.

**Impact on Distribution Requirements and Other Courses:** None.

**Impacts on students:** None.

**Resource Needs:** None.

**Implementation Date:** Academic Year 2020-21.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to change the course title for HI 1322. INTRODUCTION TO EUROPEAN CULTURAL HISTORY approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that the course title for HI 1322. Introduction to European Cultural History be changed as described below.

**Existing title, description and course offering schedule:**

HI 1322. INTRODUCTION TO EUROPEAN CULTURAL HISTORY. Cat. I

In this course students think through some of the major intellectual currents that have defined modern Western Civilization. Topics include the philosophical impact of science on modern thought, the development of liberalism and socialism, the crisis of culture in the twentieth century. Students read selections from major thinkers in the Western tradition and develop their skills at critical thinking, analysis, oral and written argument. No prior knowledge of European history is required.

Some sections of this course may be offered as Writing Intensive (WI).

**Proposed title, description, and course offering:**

HI 1322. INTRODUCTION TO EUROPEAN HISTORY. Cat. I

This course introduces students to the major currents that have defined modern European History.

Themes and topics will vary and may include the philosophical impact of science on modern thought, the development of liberalism and socialism, the crisis of culture in the twentieth century. Students read selections on major episodes in European history and develop their skills in critical thinking, analysis, oral and written argument. No prior knowledge of European history is required.

Some sections of this course may be offered as Writing Intensive (WI).

**Explanation of Motion:** This motion deletes “cultural” in the course title and includes editorial changes in the course description.

**Rationale:** This is the only introductory course in European history and may or may not focus on “cultural” history depending on the approach of the instructor. Minor editorial changes in the description indicate the course is an introduction to European history, rather than Western Civilization. The sample topics remain the same since this is the same course. These changes provide a more accurate title and description, so it is not necessary to propose motions to drop this course and add a new one.

**Impact on Distribution Requirements and Other Courses:** This course should be retitled in the list of International and Global Courses (p. 86).

**Impacts on students:** None.

**Resource Needs:** None.

**Implementation Date:** Academic Year 2020-21.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to change the course description for INTL 4100. SENIOR SEMINAR IN INTERNATIONAL AND GLOBAL STUDIES approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that the course description for INTL 4100. SENIOR SEMINAR IN INTERNATIONAL AND GLOBAL STUDIES be changed as described below.

**Existing title, description and course offering schedule:**

INTL 4100. SENIOR SEMINAR IN INTERNATIONAL AND GLOBAL STUDIES. Cat. I

This course is designed to integrate each student's international courses, projects, and experiences in a capstone seminar in International and Global Studies. Students will reflect on what they have learned in their previous courses and international experiences. They will assess what happened to them overseas, why it happened, and how it might be understood. They will also prepare a paper with an instructor in their area of International and Global Studies that integrates their previous academic courses. Students will also explore how they might translate their courses and experiences into future personal and professional opportunities.

**Proposed title, description, and course offering:**

INTL 4100. SENIOR SEMINAR IN INTERNATIONAL AND GLOBAL STUDIES. Cat. I

In this capstone seminar in International and Global Studies, students will reflect on what they learned in previous global experiences and critically analyze contemporary global issues. The seminar aims to develop habits of lifelong learning as students articulate strategies for translating global experiences and expertise into personal values and professional opportunities in their future careers.

**Explanation of Motion:** Editorial changes update the course description to reflect its learning outcomes and make reference to global, rather than overseas, experiences.

**Rationale:** The editorial changes described above are necessary since individual instructors may or may not feature an integrative paper and students arrive in this seminar with global experiences in the United States as well as overseas. These terms are used in the language of the Distribution Requirements for International and Global Studies. This is the same course with minor changes in the description, so it is not necessary to propose motions to drop this course and add a new one.

**Impact on Distribution Requirements and Other Courses:** None

**Impacts on students:** None.

**Resource Needs:** None.

**Implementation Date:** Academic Year 2020-21.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to remove HU 2441. AFRICAN HISTORY AND CULTURE from the undergraduate catalog, approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that HU 2441. African History and Culture be removed from the undergraduate catalog.

**Rationale:** This course will be replaced by new course INTL 2410. Modern Africa. Cat II.

**Provide course description:**

HU 2441. AFRICAN HISTORY AND CULTURE. Cat. II

This survey course uses an interdisciplinary approach to examine fundamental issues in African political, social, and cultural history. The course may include various topics, such as ancient African kingdoms, the influence of Islam, the Atlantic slave trade, imperialism and decolonization, contemporary democratization, or African literature and art. Suggested background: HI 1341 Introduction to Global History. This course will be offered in 2019-20, and in alternating years thereafter.

**Note changes to catalog:** Delete HU 2441.

**Impact on Distribution Requirements and Other Courses:** In the 2019-20 UG catalog, this course should be deleted from the list of list of International and Global Courses (p. 86) with the INGS major and minor, and the list of psychology-related courses (p. 112) for the Psychological Sciences major. These references should be replaced with the new course, INTL 2410.

**What term is this course typically offered and is it Cat. I or Cat. II?** D term, Cat. II.

**If there is a course to replace this, which one?** INTL 2410. Modern Africa. Cat. II

**Note if there are any changes to resource requirements.** No changes to resource requirements

**Implementation Date:** Academic Year 2020-21.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to remove AB 2542. THE CULTURE OF ARABIC-SPEAKING COUNTRIES from the undergraduate catalog, approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that AB 2542. The Culture of Arabic-Speaking Countries be removed from the undergraduate catalog.

**Rationale:** This course will be replaced by new course INTL 2420. Middle East, North Africa and Mediterranean. AB 2542 was taught in English but located in the list of Arabic language courses. The AB designation for an English-language course reduced its visibility to students and enrollment has been low. The course was taken primarily by students who had taken the Arabic language courses, and additional upper-level Arabic language courses are available. The new course, INTL 2420, also taught in English, will include Arabic speaking countries but in the context of this region that includes cultures speaking other languages. The change should result in more students enrolling in a course from which they would benefit in the WPI project program.

**Provide course description:**

AB 2542. THE CULTURE OF ARABIC-SPEAKING COUNTRIES. Cat. I

A course in the history and/or culture of Arabic-speaking countries. Taught in English, this course may be taken by students with beginning to heritage knowledge of Arabic, as well as students with no knowledge of the language. Arabic language students will find opportunities to continue their language learning.

**Note changes to catalog:** delete this course

**Impact on Distribution Requirements and Other Courses:** None.

**What term is this course typically offered and is it Cat. I or Cat. II?** Cat. I. Usually Term D.

**If there is a course to replace this, which one?** INTL 2420. Middle East, North Africa and Mediterranean.

**Note if there are any changes to resource requirements.** No changes.

**Implementation Date:** Academic Year 2020-21.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to remove HI 2325. MODERN FRANCE from the undergraduate catalog, approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that HI 2325 Modern France be removed from the undergraduate catalog.

**Rationale:** This course will be replaced by INTL 2510. Contemporary Europe: Union and Disunion. Cat. II. The history of modern France is included in existing history of modern Europe, and the new course also will include France but in a wider context of contemporary Europe and the European Union. In recent years, HI 2325 has been under enrolled. In addition, French history and culture is now integrated into project preparation for the IQP program in France.

**Provide course description:**

HI 2325. MODERN FRANCE. Cat. II

This course examines the historical origins of modern France and the distinguishing features of French society and culture. Some of the topics covered include: Bourbon absolutism; the cause and effects of the French Revolution; the struggle for democratic liberalism in the 19th century; class and ideological conflict in the Third Republic; Vichy fascism, and present-day politics in the Fifth Republic.

No prior knowledge of French history is required. This course will be offered in 2018-19, and in alternating years thereafter.

**Note changes to catalog:** Delete HI 2325. In the 2019-20 UG catalog, delete from list of International and Global Courses (p. 86).

**Impact on Distribution Requirements and Other Courses:** None.

**What term is this course typically offered and is it Cat. I or Cat. II?** Cat. II, term has varied.

**If there is a course to replace this, which one?** INTL 2510. Contemporary Europe: Union and Disunion. Cat. II

**Note if there are any changes to resource requirements.** None.

**Implementation Date:** Academic Year 2020-21.



**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add INTL 2410. MODERN AFRICA approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that INTL 2410. Modern Africa, as described below, be added.

**Course/Catalog Description:**

INTL 2410. Modern Africa. Cat II

This interdisciplinary course takes a thematic approach to modern Africa. Topics and themes will vary each time the course is taught, and may include African kingdoms, the influence of Islam, the legacy of the Atlantic slave trade, imperialism and decolonization, democratization, the politics of language, or African literature and art. Examples and case studies will include locations where WPI has programs in this diverse and dynamic region. No prior background required. Students may not receive credit for both INTL 2410 and HU 2441. This course will be offered in 2021-22, and in alternating years thereafter.

**Recommended background:** None. The content of the course substantially overlaps HU 2441. African History and Culture, so restriction on credit for both courses is included in the description.

**Anticipated Instructor:** Professor Mohammed El Hamzaoui

**Rationale:** As the only course at WPI devoted to Africa, this course fulfills a critical curricular need. WPI currently sends students to project programs in Ghana, Morocco, Namibia, and South Africa. WPI is committed to enhancing the capacity for STEM education in Africa. In recent years, HU 2441 was been under-enrolled and the course number and location in the catalog appear to have made it difficult for students to find the course or envision it in their program of study. As INTL 2410, this course will appear alongside other WPI courses in area studies and become more visible to students. The main objectives of the course are for students to develop the capacity to identify, explain, and critically analyze the social, cultural, religious, economic, and political forces that shaped modern Africa, and to analyze their own position in relation to these forces and historical developments. As HU 2441, this course will be offered in 2019-20 by Professor El Hamzaoui; thus, the new course, INTL 2410, should be scheduled for 2021-22 and in alternating years thereafter.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department has full-time faculty who have taught HU 2441 before and have appropriate teaching and research interests. Classroom needs are typical for HUA courses. No special information technology is required. Library resources are adequate to offer this course. The expected enrollment is 35, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and programs related to international development.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add INTL 2420. MIDDLE EAST, NORTH AFRICA AND MEDITERRANEAN approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that INTL 2420, as described below, be added.

**Course/Catalog Description:**

INTL 2420. Middle East, North Africa and Mediterranean. Cat. I

This interdisciplinary course takes a thematic approach to the Middle East, North Africa and Mediterranean region. Themes and topics will vary each time the course is taught, and may include religion and culture, national, ethnic and linguistic identities, the Mediterranean as a contact zone, U.S. political and economic involvement in the region, postcolonialism, war and conflict, migration, forced displacement and refugees, human rights, religious freedom, popular culture, the politics of Islam and secularism, the regional intersections of Judaism, Christianity, and Islam, representations of Islam and other religions in visual culture, gender and media, and the circulation of U.S. culture. Examples and case studies will include locations where WPI has programs in this diverse and dynamic region. No prior background required.

**Recommended background:** None.

**Anticipated Instructors:** Professors Rebecca Moody, Yunus Tellieli, Mohammed El Hamzaoui, Mohammed Brahimi

**Rationale:** WPI sends students to the Middle East North Africa (MENA) region and to locations all around the Mediterranean. For example, students currently complete projects in Albania, Greece, Israel, Italy, and Morocco, and, soon, in the United Arab Emirates. The MENA region remains vitally important and this course meets a critical need in the curriculum. This course provides an overview for students traveling to this region or completing their Humanities and Arts Requirement. This course replaces a previous course on Arabic-speaking countries that was taught in English but located in the sequence of Arabic language courses. The new course, INTL 2420, will appear alongside other area studies courses and become more visible to students. The course also includes the wider MENA region (not just Arabic-speaking countries) as well as the broader region around the Mediterranean. The main objectives of the course are for students to develop the capacity to identify, explain, and critically analyze the social, cultural, economic, religious and political forces that shape the Middle East, North Africa and Mediterranean region, and to analyze their own position in relation to these forces and developments.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department already has several full-time faculty with teaching and research interests appropriate for this course. Classroom needs are typical for HUA courses. No special information technology is required. Library resources are adequate to offer this

course. The expected enrollment is 35, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and new programs related to international development.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add INTL 2510. CONTEMPORARY EUROPE: UNION AND DISUNION approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that INTL 2510. Contemporary Europe: Union and Disunion, as described below, be added.

**Course/Catalog Description:**

INTL 2510. Contemporary Europe: Union and Disunion. Cat. II

This interdisciplinary course takes a thematic approach to contemporary Europe, especially since the establishment of European Union's single market and common currency. Topics and themes will vary each time the course is taught and may include expansion of the EU and Euro, the impact of the free movement of goods, capital, services and people, migration and refugees, populist and nationalist movements, uneven development between regions within Europe, postcolonial relations with other parts of the world, and debates over national heritage and cultural change. Examples and case studies will include locations where WPI has programs in Europe. No prior background is required. This course will be offered in 2020-21, and in alternating years thereafter.

**Recommended background:** None.

**Anticipated Instructor:** Professor Peter Hansen, Daniel DiMassa, Ulrike Brisson

**Rationale:** This interdisciplinary overview of contemporary Europe provides important preparation for students going to any of WPI's project centers in Europe. WPI currently sends about a quarter of our global project students to programs Europe, including Albania, Denmark, France, Germany, Iceland, Italy, Romania, Russia, Sweden, Switzerland, and the United Kingdom. Europe is one of WPI's critical areas for strategic engagement along with China and Latin America. The emphasis in this course on more recent developments complements and supplements existing courses on modern European history. The interdisciplinary framework is similar to other courses in area studies. The overall objective of this course is for students to develop the capacity identify, explain, and critically analyze the social, cultural, economic, and political forces that shape contemporary Europe, and to analyze their own position in relation to these forces and developments.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department already has full-time faculty with teaching and research interests appropriate for this course. Classroom needs are typical for HUA courses. No special information technology is required. Library resources are adequate to offer this course. The expected enrollment is 35, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and programs related to development.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add INTL 1300. INTRODUCTION TO LATIN AMERICA approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that INTL 1300. Introduction to Latin America, as described below, be added.

**Course/Catalog Description:**

INTL 1300. INTRODUCTION TO LATIN AMERICA. Cat. I

This course reviews the past and present of South America, Central America and the Caribbean through an interdisciplinary approach. It examines historical and contemporary issues related to social mobilization, cultural innovation, political activism, economic development, and environmental sustainability through the critical analysis of books, films, and creative arts from and about the region. It also presents an overview of Latin American relations with other parts of the world through the region's experiences with global culture, migration, imperialism, dependency, and entanglements with the United States. This course is especially appropriate for students who expect to complete their HUA, IQP, and/or MQP at WPI project centers in Latin America. No prior knowledge is expected.

**Recommended background:** None.

**Anticipated Instructor:** Professors John Galante, Aarti Madan, Ángel Rivera, William San Martín

**Rationale:** This new course is part of an interdisciplinary initiative to strengthen WPI's curricular and co-curricular resources devoted to Latin America. It is designed for students with a general interest in Latin America: those completing the Humanities and Arts requirement, those with plans to go to WPI project centers in the region, and those who return and want to enrich and extend their engagement with Latin American affairs. WPI offers many courses in Spanish language and literature, but very few English-language courses for students with interests in Latin America. However, in 2018 for example, 167 students completed off-campus projects in 2018 at the HUA Project Center in Buenos Aires; IQP Centers in Costa Rica, Paraguay, Panama, Ecuador, Puerto Rico, and Argentina; and MQP Centers in Panama and Brazil. Examples and case studies drawn from the locations of WPI's project centers will be featured. In this course, students will develop the capacity to identify, explain, and critically analyze issues that are at the center of the region's history and present.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department already has several full-time faculty with teaching and research interests appropriate for this course. It would require funds for adjunct faculty to cover a language, literature, or culture course when taught by Modern Languages faculty (Madan, Rivera). Classroom needs are typical for HUA courses, with media capabilities required. Library resources are adequate to offer this introductory course. The expected enrollment is 25, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and new programs related to international development.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add INTL 2310. MODERN LATIN AMERICA approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that INTL 2310. Modern Latin America, as described below, be added.

**Course/Catalog Description:**

INTL 2310. Modern Latin America. Cat. II

This course uses interdisciplinary, thematic, and case study approaches in the examination of modern Latin America. It draws from the Latin America's diversity to explore topics in the past and present that are critical for students' development of a more advanced understanding of the region and its residents. The course may include the study of topics such as cultural production, nationalism, urban and rural development, migration, social and racial inequality, democracy, and social justice through the disciplines of history and global studies, literature and creative arts, social sciences, environmental studies, and others. Examples and case studies from the nineteenth, twentieth, and twenty-first centuries will be drawn especially from locations in Latin America where WPI maintains Global Project Centers. Students may not receive credit for both INTL 221X and INTL 2310. This course will be offered in 2020-21 and in alternating years thereafter.

**Anticipated Instructor:** Professors John Galante, Aarti Madan, Ángel Rivera, William San Martín

**Rationale:** This course replaces and makes moderate revisions to an experimental course offered during 2018-2019 and 2019-2020. It is part of an interdisciplinary initiative to strengthen WPI's curricular and co-curricular resources devoted to Latin America. It is designed for students with both general and broader interests in Latin America: those completing the Humanities and Arts requirement, those with plans to go to WPI project centers in the region, and those already with robust experiences in the region who want to enrich their intellectual engagement with Latin American affairs. WPI offers many courses in Spanish language and literature, but very few English-language courses for students with interests in Latin America. However, in 2018 for example, 167 students completed off-campus projects in 2018 at the HUA Project Center in Buenos Aires; IQP Centers in Costa Rica, Paraguay, Panama, Ecuador, Puerto Rico, and Argentina; and MQP Centers in Panama and Brazil. There is substantial interest in the region among students from the United States, but WPI has increasing populations of students who are from Latin America or have Latin American heritage, for whom the topics addressed in this course can provide opportunities for more advanced study of and reflection on the region. The overall objectives of the course are to use case study and disciplinary perspectives to enable students to think critically about Latin America and to analyze the social, cultural, economic, political, and other forces that shape the region and its relationships to global issues.

The experimental version of this course, offered as INTL 221X in Term C19, had an enrollment of 14 students. The experimental course was taught by Professor Galante with contributions from Professor Madan. Student feedback was positive. Relevant questions on student rating forms (n=14) were Q1: 4.4, Q2: 4.6, and Q9: 4.6. Written comments included: "I also enjoyed the project a lot, because it allowed us to learn about current issues and gain presentation experience" and "Bringing in other mediums to

learn through like films, art, and literature was interesting.” Several students mentioned the value of connecting issues in the present to the past. The course met the learning objectives and outcomes.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department already has several full-time faculty with teaching and research interests appropriate for this course. The course would require funds for adjunct faculty to cover a language, literature, or culture course when this is taught by Modern Languages faculty (Madan, Rivera). Classroom needs are typical for HUA courses, with media capabilities required. Library resources are adequate to offer this course. The expected enrollment is 35, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and new programs related to international development.

**Also include original experimental course proposal if applicable.** (See below)

***Experimental Course Proposal for INTL 221X Modern Latin America***

**To:** Committee on Academic Operations

**From:** Department of Humanities and Arts and International and Global Studies Program

**Re:** Addition of experimental course INTL221X, approved by the Humanities and Arts Department and International and Global Studies Program on November 10, 2017

**Date:** 11/12/2017

**Proposed Experimental Course:** INTL 220X: Modern Latin America

**Course Design:** John Galante

**Anticipated Instructors:** John Galante, Aarti Madan, Angel Rivera

**Anticipated Inclusion in Curriculum:** AY 2018-2019

**Course/Catalog Description:**

Latin America is a diverse region that challenges outdated divisions in history and global studies between developed/developing, Western/non-Western, democratic/autocratic, black/white/brown. In the nineteenth century, Latin America was—for the most part—neither colonized nor colonizing. In the twentieth century, the region drew inspiration and antagonism from the United States, Soviet Union and non-aligned spheres of influence. In the twenty-first century, the region continues to embody both *avant-garde* and traditional forms of cultural and economic production, and a diverse set of social and political circumstances. Study of modern Latin America and its people engages with these complexities and illuminates the structure and function of the modern world. Incorporating perspectives and practices from history, literary and film studies, the social sciences and other disciplines, this course can enable students to engage with patterns of colonialism, nationalism and social and economic development in Latin America, and the region’s many responses to contemporary cultural, social, political and economic issues. No previous background is required for enrollment.

**Rationale:**

A course on modern Latin America will provide students with a resource which they can combine with Spanish language and literature courses, project center experiences in Latin America and other resources at WPI to enhance their engagement with and understanding of a region that is deeply integrated with the



United States and critical to understanding global affairs.

Outside of the Spanish-language curriculum, which includes one course in English on U.S. Latino literature and culture, the Humanities & Arts Department does not have any classes that focus specifically on Latin America. Meanwhile, across its disciplines, the department offers a great number of classes on European history and culture as well as those that cover the intellectual traditions of Europe and the United States. The department has an increasingly rich curriculum for students with interest in the study of Asia, and China especially. The department also offers courses that introduce students to history and current affairs related to Africa (HU 2441 *African History and Culture*) and the Middle East (AB 2542 *Culture of Arabic-Speaking Countries*). Within the HUA department, therefore, Latin America is unique among major world regions, and a course like *Modern Latin America* fills a significant gap in a curriculum that seeks to introduce students to diverse perspectives within the humanities.

Part of the ongoing review of the Humanities & Arts Department's course offerings and pedagogical methods involves efforts to connect the curriculum more broadly to university-wide initiatives, including the global competency piece of the strategic plan. This course can help the department to advance these efforts by widening the geographical scope of its offerings and expanding the International and Global Studies program. The interdisciplinary nature of that program, and the *Modern Latin America* course as proposed, permits this course to be taught by faculty members with expertise in a range of fields found within the department. A course designed in this fashion allows WPI students to explore Latin American approaches and points of view in relation to philosophy and religion, literary and performing arts, cultural studies and technology, in addition to history and global studies.

WPI relationships with Latin America are expanding in many ways. A significant number of students come from the region or, if born in the United States, are of Latin American heritage. Demographic changes at WPI and in the U.S. more broadly mean most—if not all—WPI student will interact with these students in some way. Moreover, there are six WPI Project Centers in Latin America, including an HUA center in Buenos Aires. A *Modern Latin America* course can help prepare students for fieldwork experiences and cultural interactions in the region, and offer them a chance to learn more about Latin America after they return to campus.

**Enrollment/Schedule:**

An initial course offering during the 2018-2019 academic year would have an enrollment limit of 35 students and meet two-times per week for 1 hour and 50 minutes per meeting.

**Resource Needs:**

This course will be taught by existing faculty (at present either Professors Galante, Madan, Rivera) and would require funds for an adjunct if taught by one of the language faculty (Madan, Rivera) to cover their language course. The course requires no further resources beyond existing classrooms, laboratories, library resources, or information technology.

**Date:** October 3, 2019

**To:** WPI Faculty

**From:** Committee on Academic Operations (prof. Strong, Chair)

**Re:** Motion to add HI 2930. TOPICS IN LATIN AMERICAN HISTORY approved by the International and Global Studies Program on 4/11/2019 and the Humanities and Arts Department on 4/12/2019.

**Motion:** The Committee on Academic Operation recommends and I move that HI 2930. Topics in Latin American History, as described below, be added.

**Course/Catalog Description:**

HI 2930. Topics in Latin American History, Cat. II

This seminar course examines topics in the history of Latin America. It bases those topics on issues in the region that are of critical importance in the present, and it outlines the historical origins and interrogates the historical contexts of those issues. Topics and course materials may vary each year depending on the issues addressed. The broad themes with which these topics may engage include: science, technology, and development; energy, sustainability, and the environment; inequality and social justice; migration and mobility; U.S.-Latin American relations; democracy, populism and nationalism; the Cold War and the post-Cold War global order. Readings will include primary and secondary sources. No prior background is required. This course will be offered in 2021-22 and in alternating years thereafter.

**Recommended background:** None.

**Anticipated Instructor:** Professors John Galante, William San Martín

**Rationale:** This new course is part of an interdisciplinary initiative to strengthen WPI's curricular and co-curricular resources devoted to Latin America. It is designed for students with a general interest in Latin America: those completing the Humanities and Arts requirement, those with plans to go to WPI project centers in the region, and those who return and want to enrich and extend their engagement with Latin American affairs. WPI offers many courses in Spanish language and literature, but very few English-language courses for students with interests in Latin America. However, there is substantial interest in Latin America among WPI students, many of whom are from Latin America, have Latin American heritage, or come from communities in the United States with large Latino populations. In 2018, 167 students completed off-campus projects in 2018 at the HUA Project Center in Buenos Aires; IQP Centers in Costa Rica, Paraguay, Panama, Ecuador, Puerto Rico, and Argentina; and MQP Centers in Panama and Brazil. Through this course, students will be able to explain and critically analyze the historical contexts of the topics addressed and develop improved understandings of issues of critical importance around the Western Hemisphere in the present.

**Implementation Date:** Academic Year 2020-21.

**Resource Needs:** No new resources are required. The department already has several full-time faculty with teaching and research interests appropriate for this course. Classroom needs are typical for HUA courses, with media capabilities required. Library resources are adequate to offer this introductory course. The expected enrollment is 25, and the course type is Lecture/Discussion.

**Impact on Distribution Requirements and Other Courses:** This course will provide additional options for students completing the Humanities and Arts Requirement, the International and Global Studies Minor or Major, the Humanities and Arts Major, and new programs related to international development.

**Date:** October 3, 2019  
**To:** WPI Faculty  
**From:** Committee on Graduate Studies and Research (prof. Fischer, Chair)  
**Re:** Motion to Revise the Graduate Certificate in Robotics Engineering

**Motion:** The Committee on Graduate Studies and Research recommends and I move that the Graduate Certificate in Robotics Engineering be revised to provide sufficient flexibility to support thematic specializations in the plan of study.

**Existing Certificate in Robotics Engineering (RBE):**

Currently, there is no listing of the Graduate Certificate in RBE in the WPI Graduate Catalog. One has been offered for some time and the plan of study is posted on the department website. This plan of study is somewhat restrictive and does not fully support specializations that the department would like to offer. The current certificate requirements are as follows:

Completion of this graduate certificate requires 15 course credits and includes the following core courses:

- RBE 500 Foundations of Robotics – 3 credits
- ME/RBE 501 Robot Dynamics – 3 credits
- SYS 501 Concepts of Systems Engineering – 3 credits
- CS/ECE/ME/RBE/SYS graduate-level electives with advisor approval – 6 credits

**Proposed Graduate Certificate in Robotics Engineering:**

We propose that the certificate requirements be changed to the following:

- Core (3 credits): RBE 500 |Foundations in Robotics
- Depth (9 credits): The 3 courses RBE 501 Robot Dynamics, RBE 502 Robot Control, and SYS 501 Concepts of Systems Engineering OR 9 credits of thematically-related RBE graduate-level coursework with RBE Graduate Program Committee approval.
- Elective (3 credits): Elective graduate coursework in Math, Science or Engineering with advisor approval

**Rationale:**

WPI Robotics Engineering has continuously created new coursework to address the multitude of robotic applications in the marketplace. Significant initiatives like medical robotics and now in autonomous vehicles have presented the opportunity to develop specialized coursework and plans of study that are focused in these areas. The proposed changes to the RBE graduate certificate provide needed flexibility to accommodate these plans of study. The previous set of requirements are a subset of the proposed requirements.

**Resource Requirements:**

No change. CPE will offer full time and adjunct WPI faculty members the opportunity to develop and deliver the courses for this program. CPE will continue to recruit qualified adjunct faculty to present to the RBE department for vetting and approval to participate in this program.

**Graduate Catalog Additions:**

If approved, the graduate catalogs (online and next print) shall be modified to reflect the proposed changes to this certificate. These modifications include inserting the certificate title in the Graduate Programs section (pg 4), inserting “Certificate” to the WPI Online, Programs of Study table (pg 10) and add the certificate degree requirements (listed in the Proposed Section, above) to the WPI Graduate Catalog, under the Degree Requirements section of the Robotics Engineering Department (pg 162).

**Implementation Date:** Fall of Academic Year 2020/21