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Faculty Senate Meeting Agenda
October 3, 2022, 3:30 PM
University Crossing 260

1. 5/2/22 Faculty Senate Minutes (Kevin Petersen)
 2. Vote for Vice President (Kevin Petersen)
 3. Reports from Faculty Representatives to the Board of Trustees (Matt Hurwitz and Karen Lin)
 4. Updates on Faculty Senate committees and Program Coordinator search (Kevin Petersen)
 5. Chancellor Julie Chen
 6. Updates on SIS and pronouns (Mai Nguyen, Amy Liss, and Sarah Eisenklam)
 7. Undergraduate Policy Committee (Michael Geiger)
 - Proposal to amend the policy on Incomplete Grades
 - Proposal to revise of the FAHSS American sign language policy
 - Proposal to change the Robotics Minor
 8. Graduate Policy and Affairs Committee (Saira Latif)
 - Proposal for modified admission requirements for Physics students from St. Anselm College to UML MS in Physics
 - Proposal for MS in Plastics Engineering MOA with Endicott College
- GPAC - For Information Only
- Proposal to reinstate graduate certificate in Elastomeric Materials in Plastics Engineering

UNIVERSITY OF MASSACHUSETTS
AMHERST•BOSTON•DARTMOUTH•LOWELL•MEDICAL•LAW•ONLINE

BOARD OF TRUSTEES

Thursday, September 22, 2022; 10:00 a.m.

Remote Meeting

Pursuant to the Governor's Order Suspending Certain Provisions of the
Open Meeting Law, G.L. c.30A, §20 dated March 12, 2020
and Extended to March 31, 2023

AGENDA

I. **Call to Order**

II. **Consideration of Minutes of the Prior Meeting of the Board**

- [June 2, 2022 \(Open Session\)](#) [pp. 3-12]
- June 2, 2022 (Executive Session)

III. **Chair's Report**

- Student Trustee Report, UMass Boston (Michael Dooley)

IV. **President's Report**

Welcomed Chancellor Chen and new student trustees (Mina Lam is UML student trustee). Focus on getting students to vote. Enrollments remain mainly stable but there are "headwinds" and we need to redouble efforts on retention and graduation rates. September 29th will be convening of faculty and staff from all UMass campuses to focus on retention strategies. Pleased with process of state budget this year. \$5M initiative to get 100 under-employed people into front line health care worker positions.

V. **Reports of Standing Committees**

a. Committee on Academic Affairs and Economic Development

Brief summary provided. Highlights from previous meeting include:

UMass outcome data from the Census Bureau on alumni earnings and outcomes:

83% of UML Bachelor's graduates who are working (5-year post graduation rate - health sciences, engineering, and business/management highest percentage

\$65,000 median salary (highest among UMass campuses, with computer science as highest earners at \$99,900 median salary)

75% of UML graduates work in-state (5-year post graduation rate)

Appointed professorships voted on and approved:

Professor Carol Barry for the title of the Mark and Elisia Saab Endowed Professorship for two years at the University of Massachusetts Lowell;

Associate Professor Gulden Camci-Unal for the title of the Robert and Gail Ward Endowed Professor in Biomedical Materials Development (Ward Professorship) for a two-year term at the University of Massachusetts Lowell;

Associate Professor Comfort Enah for the title of the Donna Manning Endowed Chair for Nursing for a three-year term at the University of Massachusetts Lowell;

Professor Joey Mead for the title of the David and Frances Pernick Endowed Nanotechnology

Professor (Pernick Professorship) for a two-year term.at the University of Massachusetts Lowell;

Professor Sandra B. Richtermeyer to the inaugural Rist Family Foundation Endowed Deanship in the Manning School of Business at the University of Massachusetts Lowell;

Professor James Sherwood for the title of the Howard P. Foley Endowed Professor for a two-year term at the University of Massachusetts Lowell; and

Professor Margaret Sobkowicz-Kline for the title of the James V. Dandeneau Endowed Professorship at the University of Massachusetts Lowell.

b. Committee on Administration and Finance

Brief summary provided.

FY22 Unaudited Results

FY22 experience reflects one-time events; our commitment to long term financial sustainability by FY25 remains.

(\$ in Thousands)	FY22: Budget				FY22: Unaudited				Unaudited
	Total Revenue	Total Expenses	OM\$	OM%	Total Revenue	Total Expenses	OM\$	OM%	Vs. Budget OM \$ Change
Amherst	1,410,426	1,400,661	9,765	0.7%	1,514,815	1,409,590	105,225	6.9%	95,460
Boston	480,622	474,138	6,484	1.3%	486,210	481,706	4,503	0.9%	(1,980)
Dartmouth	264,661	264,661	-	0.0%	264,819	262,950	1,869	0.7%	1,869
Lowell	511,316	520,147	(8,831)	-1.7%	538,248	533,458	4,790	0.9%	13,622
President's Office	105,065	101,639	3,426	3.3%	99,737	90,611	9,126	9.2%	5,700
Subtotal	2,772,089	2,761,246	10,843	0.4%	2,903,829	2,778,315	125,514	4.3%	114,671
Chan Medical School	980,118	960,489	19,629	2.0%	1,029,575	1,007,676	21,899	2.1%	2,270
Total	3,670,550	3,640,078	30,472	0.8%	3,846,885	3,699,471	147,414	3.8%	116,942

(1) Does not include impacts of GASB 68 & 75; OM revenue excludes unrealized gains/losses; Inter-campus eliminations are included in "Total"

FY23 Budget: Updates Since June

FY23 Approved Budget (June)

- Totals \$3.8 billion; 0.7%; \$28.5 million operating margin
- Enrollment: 65,090 student FTEs; increase of 0.7%
- Staffing: 15,492 employee FTEs; increase of 3.2%
- Continues innovative stewardship that has kept UMass financially strong
- Increased State support (direct appropriation & MASSGrant Plus); modest tuition increases

New Since June

- Enrollment essentially on plan (*est. 65,413 FTEs; -0.2%*); *Results vary by campus*
- Housing demand exceeds budget expectations at Amherst; lower for campus owned housing at Dartmouth & Lowell
- State appropriation request fully funded including collective bargaining costs, mental health, financial aid and inflation

Enhanced Monitoring

- Active management ensures path for long-term financial sustainability; improving all key financial measures
- Utilize Strategic Planning Analytics & Reporting for Campuses (SPARC) dashboard to support stewardship; expand to include Auxiliary
- Strengthen model for projecting salaries & fringe expenses
- 5-Year forecast underway *December 2022 presentation*

FY23 Fall Enrollment (as of 9/19/22)

Reflects enrollment after add/drop period

Total Enrollment (FTE):
64,513 FTEs ▼ -0.2%

Undergraduate New:
▲ 1,113 or 8%

Undergraduate Continuing:
▼ 845 or -3%

Students FTEs	FY2020	FY2021	FY2022	Budget		Variance to Budget	
				FY2023	YTD FY2023		
Amherst	29,808	29,693	29,802	30,290	30,168	(122)	100%
Boston	13,241	13,571	12,944	13,216	12,876	(340)	97%
Dartmouth	6,971	6,709	6,432	6,408	6,319	(89)	99%
Lowell	14,790	14,855	14,228	13,919	13,848	(71)	99%
Subtotal	64,810	64,828	63,408	63,833	63,211	(622)	99%
% Growth	1.0%	0.0%	-2.2%	0.7%	-0.3%		
Medical School	1,195	1,242	1,246	1,257	1,302	45	104%
University	66,005	66,070	64,654	65,090	64,513	(577)	99%
% Growth	1.0%	0.1%	-2.1%	0.7%	-0.2%		

Note: Previous 5-year average growth rate of 0.2%; 10-year average growth rate of 0.8%;

All items approved unanimously.

1. Appointments to Named Professorships and including Endowed Chairs, UMass Amherst, Lowell, Chan Medical School:
2. Appointments with Tenure, UMass Amherst, Boston, Dartmouth
3. Awards of Tenure, UMass Chan Medical School
4. Transfer of Tenure, UMass Amherst, Dartmouth
5. Establishment of Endowed Professorship and Chair, UMass Amherst, Chan Medical School
6. Authorization to Submit the University's Fiscal Year 2024 Budget Request
7. Approval of Changes to the University's Five-Year FY2022-FY2026 Capital Plan

VII. **Other Business (Vote)**

1. [Department of Defense, Exclusion from Personnel Clearance Requirements](#) [pp. 17-18]

Approved unanimously.

VIII. **Governance Committee Report**

1. Amendments to the University of Massachusetts Board of Trustees By-Laws (Vote)
2. 2022/2023 Board Officers and Committee Leadership (Vote)

IX. Executive Session

1. Honorary Degrees, UMass Amherst, Dartmouth, Lowell, Chan Medical School
2. To conduct strategy sessions in preparation for negotiations with nonunion personnel pursuant to Massachusetts General Law, Chapter 30A; Section 21(3); To consider the purchase, exchange, lease or value of real property, as permitted under Massachusetts General Law, Chapter 30A, Section 21a(6), since an open meeting may have a detrimental effect on the negotiating position of the University; To comply with, or act under the authority of, any applicable general or special law, pursuant to Massachusetts General Law, Chapter 30A; Section 21(7); MGL c.214; Section 1B

Chancellor Reports

- [UMass Amherst](#) [pp. 19-41]
- [UMass Boston](#) [pp. 42-52]
- [UMass Dartmouth](#) [pp. 63-67]
- [UMass Lowell](#) [pp. 68-87]
- [UMass Chan Medical School](#) [pp. 88-112]

The above listings of matters before the UMass Board of Trustees are those reasonably anticipated by the Senior Staff, Secretary and Chair of the Board, and intended to be discussed at the meeting. Not all items listed may in fact be discussed due to circumstances not known in time to provide an adjustment to the publicly available agenda, and other items that are not listed, may also be brought up for discussion, to the extent such is permitted by law.

The UMass Board of Trustees, per its by-laws and to the extent permitted by law, may reserve time during the agenda of its regular meetings for public participation, and/or allow the meeting to be audio/videotaped. Individuals seeking to speak to the Board or audio/video tape the meeting should so inform the Office of the Secretary of the UMass Board of Trustees' office in writing, setting forth the purpose for which they seek to speak and/or audio/videotape the meeting, at least 24 hours before the relevant meeting. The Chairperson shall have discretion and determine whether said individuals shall be permitted to speak and, if so, for how long they may speak on the designated topic. The Chairperson may also exercise discretion and determine to waive the notice requirement set forth above and invite an individual(s) present at the meeting to address the Board.

**UNIVERSITY OF MASSACHUSETTS
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**MINUTES OF THE MEETING OF THE
BOARD OF TRUSTEES**

Thursday, June 2, 2022; 10:00 a.m.

Remote Meeting

**Pursuant to the Governor's Order Suspending Certain Provisions of the
Open Meeting Law, G.L. c.30A, s.20 dated March 12, 2020**

Trustees Present: Chairman Manning; Vice Chair Peters; Trustees Bates, Bhandari, Burns, Dyer, Epstein, Houle, Karam, Kelleher, Kunda, Lewis, O'Brien, Paris Jeffries, Peyser, Ramos Gagliardi, Scheibel, Tolman and Wu

Trustees Absent: Trustees Okwara, Osterhaus-Houle and Woolridge

University Administration: President Meehan; General Counsel Leone; Chancellors Fuller, Subbaswamy, Suárez-Orozco, Moloney and Collins

Faculty Representatives: Professors Hoagland, UMass Amherst; Kim, UMass Boston; and O'Reilly, UMass Dartmouth

Documents Used:

- April 13, 2022 (Open & Executive Session)
- May 9, 2022

Chairman Manning convened the meeting at 10:03 a.m. and reminded the Board of the Governor's executive order issued on March 12, 2020, and extended until July 15th to have the meeting remotely. He reminded the Trustees to unmute themselves for the roll call votes and state their name when moving and seconding a motion for vote.

Consideration of the prior Minutes of the Board

Chairman Manning stated that the Board was provided with the draft minutes of the April 13, 2022 meeting's Open and Executive Session and the May 9th meeting and asked for any corrections. With no corrections, the minutes were approved.

Pursuant to Mass General Laws Chapter 30A and under the Office of The MA Attorney General, Open Meeting Law Guide and Educational Materials, General Counsel Leone, under the delegation of the UMass Board of Trustees, has determined that the Executive Session minutes will not be released at this time, and should remain confidential because publication would defeat the lawful purposes of the executive session.

Chair's Remarks

Chairman Manning acknowledged the Student Trustees and thanked them for their service to the University. He stated that their presence and participation on the Board is a powerful reminder of

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why we are here and why the University of Massachusetts exists. He wished them well in the future as it was their last meeting on the Board.

Zachary Dyer will continue pursuing both his MD and PhD at the UMass Chan Medical School. The Trustees that graduated are now members of the University's Class of 2022. Narcisse Kunda received his degree in management and marketing from UMass Dartmouth on May 6. Barkha Bhandari who majored in Economics and Creative Writing graduated from UMass Amherst on May 13. Derek Houle received his electrical engineering degree from UMass Lowell on May 14. Josh Bates, who majored in computer science and political science graduated from UMass Boston on May 27.

Chairman Manning acknowledged and thanked Chancellor Moloney for her service to the University. He personally thanked her for everything she has done to help him as an alum and for her leadership on the campus and in the community. Chancellor Moloney is stepping down from her almost four decades of tenure at UMass Lowell. He recognized and congratulated Julie Chen, the incoming UMass Lowell Chancellor.

Nomination of the Governance Committee Members

Chairman Manning stated that per the Board Bylaws, the Governance Committee membership for 2022-2023 was established. He will serve as Chair; Trustee Scheibel as Vice Chair; and Trustees Osterhaus-Houle and Peters will serve as members. The Committee will meet and report back to the Board at its annual meeting in September.

Student Trustee Report, UMass Amherst

Trustee Bhandari thanked the Chairman for acknowledging the Student Trustees and stated that serving on the Board has been an interesting and illuminating experience. She acknowledged Chancellor Subbaswamy, the faculty, and the student body for creating an amazing campus community.

Trustee Bhandari highlighted campus activity over the last year. A commitment to transition to 100 percent renewable energy by 2032 was unveiled. A Survivor Bill of Rights was introduced. UMass Gives, the fundraising campaign, exceeded all previous records with over 100,000 donors, including significant alumni contribution. Free COVID-19 testing was provided to UMass and the Amherst community. Black students received threatening xenophobic and racist emails and do not feel safe, and are deeply dissatisfied with the response from the campus, the Administration and the Board. Food insecurity continues because of the challenges posed by the pandemic. One of the largest demonstrations against sexual assault was held on campus last fall.

She also spoke to the Board's vote to increase tuition and fees and acknowledged the two voting Student Trustees for voting against the increase. She commented on the need for the UMass system to do better for all of the students and its members.

President's Report

President Meehan spoke to challenges ahead and providing students with the services they need and deserve. He thanked the Student Trustees for their service and their critical perspective. He acknowledged Trustees Bhandari, Kunda, Houle and Bates, who are now among UMass alumni

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worldwide. He acknowledged and thanked Chancellor Moloney for her support and leadership within the UMass Lowell community, across the UMass five-campus system, and throughout the region of the Merrimack Valley and the Commonwealth.

President Meehan reported on the state budget, thanking the Governor, Senate President, and House Speaker and their colleagues for the support of the University's \$648 million appropriation. He also thanked David McDermott, the campuses, and Senior Vice President Calise and her team for their help and work on the budget. He commented on the academic year ending financially stable, enrollment for the upcoming academic year being on track with budget projections, continued success which will require constant monitoring, planning, and proactive management, and focusing on retention in the coming months.

The President additionally noted his participation in a meeting with Governor Baker, Chairman of the House Ways & Means Committee Richard Neal and MassBio CEO Joe Boncore on May 16. The meeting convened three dozen Massachusetts business, civic and higher education leaders at the UMass Club to rally support for bringing a new federal agency headquarters, the Advanced Research Projects Agency for Health (ARPA-H), devoted to high-risk, high-reward biomedical research to Massachusetts.

Standing Committee Reports:

Committee on Academic Affairs and Economic Development (CAAED)

Trustee Paris Jeffries began his report by thanking Chancellor Moloney for her impact on the University and him personally, and thanked the Students Trustees for their service.

Trustee Paris Jeffries reported that the Committee on Academic Affairs and Economic Development met on Wednesday, May 25, 2022 and approved the minutes of the March 30, 2022 CAAED meetings held in both open and executive session. In his remarks, President Meehan introduced the report presented by Chancellor Newman on how the pandemic affected enrollment, highlighted commencement for the Class of 2022, highlighted the R&D Report and the UMass research enterprise, and cited how all of the important milestones demonstrate the multi-dimensional impact of the University of Massachusetts.

There was a discussion on assessing the outcome of the pandemic: enrollment, retention, migration to remote learning, physical and psychological health impacts, and graduation. The Committee considered and voted on two Action Items: the Master of Science Manufacturing Engineering at UMass Amherst, and Appointments to Named Professorships including Endowed Chairs at UMass Amherst and Chan Medical School. The Committee also heard from two public speakers. CAAED then voted to enter into Executive Session to consider Appointments with Tenure at UMass Lowell and Chan Medical School, and Awards of Tenure at UMass Amherst, Boston and Lowell. The tenure items were voted for inclusion on the Consent Agenda for Board approval.

Committee on Administration and Finance (A&F)

Trustee Karam reported that the A&F Committee met yesterday and the FY23 University Operating budget was presented. At its next meeting, the Committee will focus on Fall enrollment and housing occupancy and review UMass Global's FY23 budget.

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The Committee considered and voted on four Action Items: Establishment of Endowed Chair and Dean at UMass Lowell and UMass Chan Medical School, Doc. T22-027; Quarterly Capital Project Update and Amendments to the University's Capital Plan, Doc. T21-048, as amended; Approval of the University's FY23 Operating Budget, Doc. T22-017; and Authorization to Allocate the FY23 State Appropriation, Doc. T22-018. All of the items were approved and placed on Consent Agenda. Three detailed reports and schedules were posted for the Trustees information: Affirmative Action Reports, the Enterprise Risk Management (ERM) Report, and the Tuition & Fee Schedules.

Audit and Risk Committee (A&R)

Trustee Kelleher began his report by thanking Chancellor Moloney for her leadership on the Lowell campus and University-wide, and thanked the Student Trustees for their perspective on the University.

Trustee Kelleher reported that the Audit and Risk Committee met yesterday. The Committee accepted the minutes of the prior Committee meeting and heard reports from Kyle David the Director of Internal Audit, Christine Packard the Director of Enterprise Risk Management, and from KPMG the University's audit firm. Mr. David reviewed Internal Audit's reporting line to the Committee and reported on the 2023 Internal Audit Plan. Ms. Packard provided a summary of the 2022 ERM Report. KPMG's Partner and Senior Manager reviewed their Fiscal Year 2022 Audit Plan. The Committee also voted to approve the Fiscal Year 2023 Internal Audit Plan.

Trustee Kelleher acknowledged Ms. Packard for her award for the risk management tools she developed.

Trustee Kelleher asked the Chairman to entertain a motion to approve the Fiscal Year 2023 Internal Audit Plan, Doc. T22-015. Chairman Manning then asked for the motion. It was moved by Trustee Karam and seconded by Trustee Scheibel.

The Secretary called the roll. Chairman Manning voted for the motion as did Vice Chair Peters; Trustees Burns, Epstein Houle, Karam, Kelleher, Kunda, Lewis, O'Brien, Paris Jeffries, Peysler, Ramos Gagliardi, Scheibel, Tolman and Wu.

VOTED: To approve the FY2023 Internal Audit Plan, Doc. T22-015.

Consent Agenda

Chairman Manning stated that the Committee on Academic Affairs and Economic Development approved and voted to place items 1-4 on the Consent Agenda, and the Committee on Administration and Finance approved and voted items 5-8. All of the votes were included with the Board meeting materials.

Chairman Manning asked for a motion to approve the 8 items on the Consent Agenda. It was moved by Trustee Paris Jeffries and seconded by Vice Chair Peters.

The Chairman asked for questions on the Consent Agenda. There being none, the Secretary called the roll. Chairman Manning voted for the motion as did Vice Chair Peters; Trustees Burns, Epstein,

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Houle, Karam, Kelleher, Kunda, Lewis, O'Brien, Paris Jeffries, Peyser, Ramos Gagliardi, Scheibel, Tolman and Wu.

VOTED: To approve the votes listed as 1-8 on the Consent Agenda:

The Committee on Academic Affairs and Economic Development approved items 1-4 on May 25, 2022.

1. **Master of Science in Manufacturing Engineering, Doc. T22-022**

To approve the Master of Science in Manufacturing Engineering at the University of Massachusetts Amherst.

2. **Appointments to Named Professorships including Endowed Chairs, UMass Amherst, Chan Medical School, Doc. T22-023**

To concur with the President in the appointment of Professor Erin Baker as Distinguished Professor in the Department of Mechanical and Industrial Engineering at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor Alice Y. Cheung as Distinguished Professor in the Department of Biochemistry and Molecular Biology at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor Ramesh Sitaraman as Distinguished Professor in the Manning College of Information & Computer Sciences at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor Fousseni Chabi-Yo to the Berthiaume Endowed Professorship in Business Administration for a term of 5 years at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor Eric H. Baehrecke to the Our Danny Cancer Fund Chair in Biomedical Research II at the University of Massachusetts Chan Medical School.

And further, To concur with the President in the appointment of Professor Jeanne B. Lawrence to the Leo P. and Theresa M. LaChance Chair in Medical Research at the University of Massachusetts Chan Medical School.

And further, To concur with the President in the appointment of Professor Allen Mullen to the Mary C. DeFeudis Chair in Biomedical Research at the University of Massachusetts Chan Medical School.

3. **Appointments with Tenure, UMass Chan Medical School, Doc. T22-024**

To concur with the President in the appointment of Associate Professor Ann Moormann in the T.H. Chan School of Medicine at the University of Massachusetts Chan Medical School.

4. **Awards of Tenure UMass Amherst, Boston, Lowell, Doc. T22-025**

To concur with the President in the awards of tenure to the following individuals in the following departments:

- AMHERST**
- Carolina Aragón, Landscape Architecture and Regional Planning
 - Edward Arron, Music and Dance
 - Soo Young Bae, Communication
 - Laura Balzer, Biostatistics and Epidemiology
 - Joseph Bergan, Psychological & Brain Sciences
 - Mahwish Chishti, Art
 - Romie de Guise-Langlois, Music and Dance
 - Cornelius du Toit, Music and Dance
 - Theodore Eisenman, Landscape Architecture and Regional Planning
 - Michelle Farkas, Chemistry
 - Patrick Flaherty, Mathematics & Statistics
 - Lillian Fritz-Laylin, Biology
 - Symeon Gerasimidis, Civil & Environmental Engineering
 - John Gibbons, Food Science
 - Daniele Girardi, Economics
 - Sarah Goff, Health Promotion and Policy
 - Isaac Larsen, Geosciences
 - Sunghoon Lee, Manning College of Information and Computer Sciences
 - Toussaint Losier, Du Bois Department of Afro-American Studies
 - Jamila Lyiscott, Student Development
 - Jintao “Emily” Ma, Hospitality and Tourism Management
 - Jamie Mullins, Resource Economics
 - Zhengqing Ouyang, Biostatistics and Epidemiology
 - Kara Peterman, Civil & Environmental Engineering
 - Allecia Reid, Psychological and Brain Sciences
 - Pari Riahi, Architecture
 - Emiliano Ricciardi, Music and Dance
 - Malcolm Sen, English
 - Sohrab Shahshahani, Mathematics & Statistics
 - Philip Thomas, Manning College of Information and Computer Sciences
 - Shigefumi Tomita, Music and Dance
 - Chen Wang, Physics
 - Jie Xiong, Manning College of Information and Computer Sciences
 - Weiai “Wayne” Xu, Communication
 - Mingxu You, Chemistry
 - Kathryne Young, Sociology
- BOSTON**
- Cassandra Alexopoulos, Communication
 - Stacy Bender, Counseling and School Psychology
 - Tejaswani Dalvi, Curriculum & Instruction
 - Leila E. Davis, Economics
 - David Degras, Mathematics

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Luis De León, Biology
Anne Fitzpatrick, Economics
Kenneth K. Fletcher, Computer Science
Isabel Gomez, Latin American and Iberian Studies
Andrés Henao Castro, Political Science
Meghan Kallman, School for Global Inclusion and Social Development
Kiersten C. (K.C.) Kerby-Patel, Engineering
Denise Khor, American Studies
Robert Kim, Administration and Finance
Nedra K. Lee, Anthropology
Christopher Martell, Curriculum & Instruction
Catherine McCusker, Biology
Shannon McHugh, Modern Languages, Literatures and Cultures
Hugh Charles O'Connell, English
Amit Patel, Public Policy & Public Affairs
Shailja Pathania, Biology
Antonio Raciti, Urban Planning and Community Development
Neil Reilly, Chemistry
Jens Rister, Biology
Christopher Schade, Art
Wenhua Shi, Art
Elizabeth L. Sweet, Urban Planning and Community Development
Romilla Syed, Management Science and Information Systems
Xiaolu Xu, Accounting and Finance
Huimin Yan, Exercise and Health Sciences
Yijia (Eddie) Zhao, Accounting and Finance
Kai Zou, Exercise and Health Sciences

LOWELL

Ertan Agar, Francis College of Engineering
Elizabeth Altman, Manning School of Business
Michael Black, Fine Arts, Humanities, & Social Sciences
Gulden Camci-Unal, Francis College of Engineering
Danjue Chen, Francis College of Engineering
Dionysios Christodouleas, Kennedy College of Sciences
David Claudio, Francis College of Engineering
Ofer Cohen, Kennedy College of Sciences
Denise Dunlap, Manning School of Business
Mazen El Ghaziri, Zuckerberg College of Health Sciences
Sabrina Feldeisen, Zuckerberg College of Health Sciences
Elana Feldman, Manning School of Business
Richard Gaschnig, Kennedy College of Sciences
Jose Mauricio Geleilate, Manning School of Business
Joseph Gonzales, Fine Arts, Humanities, & Social Sciences
Hsien-Yuan Hsu, Fine Arts, Humanities, & Social Sciences
Archana Kamal, Kennedy College of Sciences
Pei-Chun Kao, Zuckerberg College of Health Sciences

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Ann Kronrod, Manning School of Business
 Ben Li, Fine Arts, Humanities, & Social Sciences
 Marianna Maiaru, Francis College of Engineering
 Natalia Palacios, Zuckerberg College of Health Sciences
 Jill Portnoy, Fine Arts, Humanities, & Social Sciences
 Spencer Ross, Manning School of Business
 Li Sun, Manning School of Business
 Johanna Tigert, Fine Arts, Humanities, & Social Sciences
 Angela Walter, Zuckerberg College of Health Sciences
 Dongming Xie, Francis College of Engineering
 Weile Yan, Francis College of Engineering

The Committee on Administration and Finance approved items 5-8 on June 1, 2022.

5. Establishment of Endowed Dean and Chair, UMass Lowell, Chan Medical School, Doc. T22-027

In accordance with sections 1A(e) and 11 of Chapter 75 of the General Laws to establish the following:

Establishment of the Rist Family Foundation Endowed Deanship in the Manning School of Business at the University of Massachusetts Lowell.

And,

Establishment of the Our Danny Cancer Fund Chair in Biomedical Research II at the University of Massachusetts Chan Medical School.

6. Approval of Changes to the Capital Projects List (related to the FY2022–FY2026 Capital Plan), (Vote 1 Traditional Project), UMass Dartmouth, Doc. T21-048, as amended

Pursuant to Trustee Policy T93-122, as amended, to authorize the following projects under the **first vote**; the adoption of such vote hereby satisfies the University’s written request that the University of Massachusetts Building Authority undertake the following projects to the extent permitted by Trustee Policy T93-122, as amended and Board vote T21-048:

Campus	Project Name	Preliminary Campus Estimate	Funding Sources				Alternative Finance & Delivery
			Local Funding	External Funding	Borrowed Funding	State Funding	
Dartmouth	LARTS HVAC Renovation/Upgrade	\$73,000,000	-	-	-	\$73,000,000	-

7. FY2023 University Operating Budget, Doc. T22-017

To approve the University’s Fiscal Year 2023 Operating Budget and to authorize the President to approve changes, as needed, based on the final General Appropriations Act for Fiscal Year 2023 and any changes made to it during the fiscal year.

8. Authorization to Allocate the Fiscal Year 2023 State Appropriation, Doc. T22-018

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To direct the President to allocate the amount appropriated for the University of Massachusetts in Line Item 7100-0200 of the General Appropriation Act for Fiscal Year 2023 to the campuses.

Other Business#1: Designation of the Department of Computer Science as the School of Computer and Information Sciences AND Naming of the Richard A. Miner School of Computer and Information Sciences, UMass Lowell

Chairman Manning asked for a motion to approve to approve the Designation of the Department of Computer Science as the School of Computer and Information Sciences and the Naming of the Richard A. Miner School of Computer and Information Sciences at UMass Lowell. It was moved by Trustee Burns and seconded by Trustee Scheibel.

Chancellor Moloney thanked Chairman Manning for his support on the Miner gift, and the Rist gift voted under the Consent Agenda; and for his support and leadership as chairman of the UMass Board. She thanked the Board for their support and encouragement, President Meehan for his confidence in her and his team for their expertise, leadership, and support to the Lowell campus, and the executive team, staff and administration, students, and Student Trustee Derek Houle. She stated that there is a great future ahead for UMass Lowell and Julie Chen will be an outstanding leader.

Chancellor Moloney then spoke to the formation of the School of Computer and Information Sciences and the Naming of the Richard A. Miner School of Computer and Information Sciences. She provided the background for Mr. Miner. She also stated that the naming opportunity is a transformative move for UMass Lowell.

Trustee Burns acknowledged and thanked Chancellor Moloney for her leadership and service to UMass, Lowell, the University system, the students, and the Lowell community.

The Secretary called the roll. Chairman Manning voted for the motion as did Vice Chair Peters; Trustees Burns, Houle, Karam, Kunda, Lewis, O'Brien, Paris Jeffries, Peyser, Ramos Gagliardi, Scheibel, Tolman and Wu. Trustees Epstein and Kelleher were not present for the vote.

VOTED: To concur with the recommendation of the President and approve the designation of the Department of Computer Science as the School of Computer and Information Sciences, as part of the Kennedy College of Sciences at the University of Massachusetts Lowell.

And further,

To approve the naming of the School of Computer and Information Sciences as the Richard A. Miner School of Computer and Information Sciences at the University of Massachusetts Lowell.

Executive Session Announcement

Chairman Manning asked for a roll call vote to enter into Executive Session to discuss the purchase, exchange, lease or value of real property for the System under Chapter 30A. He stated

Board of Trustees
June 2, 2022

that the meeting will not reconvene in open session. The Chairman asked for a motion and it was moved by Trustee Epstein and seconded by Trustee Burns.

General Counsel Leone noted the purpose for entering into Executive Session: Pursuant to Massachusetts General Law, Chapter 30A, Section 21a(6), to consider the purchase, exchange, lease or value of real property, as permitted, and since an open meeting may have a detrimental effect on the negotiating position of the University; and Pursuant to Massachusetts General Law, Chapter 30A, Section 21a(8), since an open meeting may have a detrimental effect on the negotiating position of the University.

The Secretary called the roll. Chairman Manning voted for the motion as did Vice Chair Peters; Trustees Burns, Epstein, Houle, Karam, Kunda, Lewis, O'Brien, Paris Jeffries, Peyser, Ramos Gagliardi, Scheibel, Tolman and Wu. Trustee Kelleher was not present for the vote.

Chairman Manning stated that those participating in the Executive Session should join that Zoom meeting with the specific link provided.

The time was 10:40 a.m.

Zunilka Barrett
Secretary to the Board of Trustees

UNIVERSITY OF MASSACHUSETTS BOARD OF TRUSTEES

DATE: Board of Trustees – September 22, 2022

FOR VOTE: To recommend that the Board approve the following votes listed as 1-7 on the Consent Agenda:

CONSENT AGENDA VOTES

The Committee on Academic Affairs and Economic Development will approve items 1-4 on September 21, 2022.

1. **Appointments to Named Professorships and Endowed Chairs, UMass Amherst, Lowell, Chan Medical School, Doc. T22-044**

To concur with the President in the appointment of Professor Michael Zink for the title of Paros Professor of Geophysical Sensing Systems in the Department of Electrical and Computer Engineering at the University of Massachusetts Amherst, contingent on the establishment at the September 21, 2022 Committee on Administration and Finance of the Paros Professor of Geophysical Sensing Systems in the College of Engineering at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor George Milne for the title of Edward D. Shirley '78 Endowed Professorship in the Department of Marketing at the University of Massachusetts Amherst.

And further, To concur with the President in the renewal appointment of Professor Carol Barry for the title of the Mark and Elisia Saab Endowed Professorship for two years at the University of Massachusetts Lowell.

And further, To concur with the President in the renewal appointment of Associate Professor Gulden Camci-Unal for the title of the Robert and Gail Ward Endowed Professor in Biomedical Materials Development (Ward Professorship) for a two-year term at the University of Massachusetts Lowell.

And further, To concur with the President in the renewal appointment of Associate Professor Comfort Enah for the title of the Donna Manning Endowed Chair for Nursing for a three-year term at the University of Massachusetts Lowell.

And further, To concur with the President in the renewal appointment of Professor Joey Mead for the title of the David and Frances Pernick Endowed Nanotechnology Professor (Pernick Professorship) for a two-year term at the University of Massachusetts Lowell.

And further, To concur with the President in the appointment of Professor Sandra B. Richtermeyer to the inaugural Rist Family Foundation Endowed Deanship in the Manning School of Business at the University of Massachusetts Lowell.

And further, To concur with the President in the renewal appointment of Professor James Sherwood for the title of the Howard P. Foley Endowed Professor for a two-year term at the University of Massachusetts Lowell.

And further, To concur with the President in the renewal appointment of Professor Margaret Sobkowicz-Kline for the title of the James V. Dandeneau Endowed Professorship at the University of Massachusetts Lowell.

And further, To concur with the President in the appointment of Professor Andres Schanzer to the Cutler Chair in Vascular and Endovascular Surgery at the University of Massachusetts Chan Medical School, contingent on the establishment at the September 21, 2022 Committee on Administration and Finance of the Cutler Chair in Vascular and Endovascular Surgery at the University of Massachusetts Chan Medical School.

And further, To concur with the President in the appointment of Professor Sharon Cantor to the Gladys Smith Martin Chair of Oncology at the University of Massachusetts Chan Medical School.

2. **Appointments with Tenure, UMass Amherst, Boston, Dartmouth, Doc. T22-047**

To concur with the President in the appointment of Associate Professor Anahit Mkrtchyan in the Department of Finance in the Isenberg School of Business at the University of Massachusetts Amherst.

And further, To concur with the President in the appointment of Professor Tracy Baynard in the Department of Exercise and Health Sciences at the University of Massachusetts Boston.

And further, To concur with the President in the appointment of Professor Bo Fernhall in the Department of Exercise and Health Sciences at the University of Massachusetts Boston.

And further, To concur with the President in the appointment of Professor Venky Venkatachalam in the Department of Management Science and Information Systems at the University of Massachusetts Boston.

And further, To concur with the President in the appointment of Professor Hanchen Huang in the Department of Mechanical Engineering at the University of Massachusetts Dartmouth.

3. **Awards of Tenure, UMass Chan Medical School, Doc. T22-048**

To concur with the President in the awards of tenure to the following individuals in the following departments:

Chan Medical School Amy Walker, Program in Molecular Medicine
Guido Musch, Anesthesiology & Perioperative Medicine
Read Pukkila-Worley, Medicine

4. **Transfers of Tenure, UMass Amherst, Dartmouth, Doc. T22-049**

To concur with the President in the following transfer of tenure from the University of Massachusetts Lowell to the University of Massachusetts Amherst:

Tenure Transfer of Joyita Dutta as an Associate Professor in the Department of Electrical and Computer Engineering at UMass Lowell **TO** Associate Professor in the Department of Biomedical Engineering at the UMass Amherst.

And further, To concur with the President in the following transfer of tenure from the University of Massachusetts Amherst to the University of Massachusetts Dartmouth:

Tenure transfer for Professor Mark Fuller in the Isenberg School for Business at the University of Massachusetts Amherst **TO** Professor in the Department of Management and Marketing at the University of Massachusetts Dartmouth.

The Committee on Administration and Finance will approve items 5-7 on September 21, 2022.

5. **Establishment of Endowed Professor and Chair UMass Amherst, Chan Medical School, Doc. T22-037**

In accordance with sections 1A(e) and 11 of Chapter 75 of the General Laws to establish the following:

The Paros Professor of Geophysical Sensing Systems in the College of Engineering at the University of Massachusetts Amherst;

And further,

The Cutler Chair in Vascular and Endovascular Surgery at the University of Massachusetts Chan Medical School.

6. **Fiscal Year 2024 State Budget Request Authorization, Doc. T22-038**

To authorize the President to prepare and submit the University's Fiscal Year 2024 State Budget request per the Board's Governance policy (T73-098).

7. **Approval of Changes to the Capital Projects List (related to the FY2022–FY2026 Capital Plan), (Vote 1 - Alternative), UMass Amherst, Doc. T22-039**

WHEREAS, the University of Massachusetts Board of Trustees Policy T93-122, as amended, establishes approval requirements for Alternative finance/delivery projects that require the approval of the University President and the UMass Board of Trustees.

To recommend that the Board take the following action:

Pursuant to Trustee Policy T93-122, as amended, to approve a **first vote** requiring the University of Massachusetts Building Authority to engage professional services to conduct an independent third party analysis for the proposed Thermal Energy Storage Tank project at the Amherst campus. The adoption of such vote hereby satisfies the University's written request that the University of Massachusetts Building Authority undertake the following projects to the extent permitted by Trustee Policy T93-122, as amended, and Board vote T21-048 and requires a second vote of the board once further study of the projects is completed.

UNIVERSITY OF MASSACHUSETTS BOARD OF TRUSTEES

OTHER BUSINESS #1: **Department of Defense, Exclusion from Personnel Clearance Requirements**

DATE: **Board of Trustees – September 22, 2022**

DOC. & VOTE I.D. #: **T22-052**

FOR VOTE: WHEREAS, current Department of Defense Regulations contain a provision making it mandatory that the Chairman of the Board, the President, and the designated Facility Security Officer meet the personnel clearance requirements established for a contractor's facility clearance; and

WHEREAS, said Department of Defense Regulations permit the exclusion from the personnel clearance requirements of certain members of the Board of Trustees and other officers, provided that this action is recorded in the minutes.

NOW, THEREFORE, BE IT DECLARED that the Chairman of the Board, the President, and the designated Facility Security Officer at the present time do possess, or will be processed for, the required security clearance; and

BE IT RESOLVED that in the future, when any individual enters upon any duties as Chairman of the Board, the President, or the designated Facility Security Officer, such individual shall immediately make application for the required security clearance; and

BE IT RESOLVED FURTHER that the following members of the Board of Trustees and other officers shall not have, and can be effectively excluded from access to all classified information in the possession of the corporation and do not occupy positions that would enable them to affect adversely policies or practices in the performance of classified contracts for the Department of Defense or the User Agencies of its Industrial Security Program:

<u>NAME</u>	<u>TITLE</u>
Bethany C. Berry	Trustee
Mary L. Burns	Trustee
Michael E. Dooley	Trustee
Robert Epstein	Trustee
Stephen R. Karam	Trustee

Richard M. Kelleher	Trustee
Mina T. Lam	Trustee
Adam M. Lechowicz	Trustee
Robert Lewis, Jr.	Trustee
Michael V. O'Brien	Trustee
Noreen C. Okwara	Trustee
Kerri Osterhaus-Houle	Trustee
Imari K. Paris Jeffries	Trustee
R. Norman Peters	Trustee
James A. Peyser	Trustee
Julie N. Ramos Gagliardi	Trustee
Elizabeth D. Scheibel	Trustee
Steven A. Tolman	Trustee
Maxwell D. White	Trustee
Victor Woolridge	Trustee
Charles F. Wu	Trustee

DRAFT

Friendly Amendment to Incomplete Policy

This friendly amendment proposes a revision of the Incomplete Courses policy noted in the UML Undergraduate Catalog. The changes are intended to ensure that incompletes are assigned only in conditions allowed by the federal government, to ensure compliance with federal financial aid requirements. The relevant policy language is noted and linked at the bottom of this proposal. Additional language has been adjusted to improve clarity. Both a version showing changes between the current and proposed policies and the current Catalog policy follow for purposes of comparison and clarity.

Proposed language:

INCOMPLETE COURSES

The symbol INC (incomplete) is a temporary notation that is assigned for incomplete work in courses when a student's performance justifies the expectation that they will obtain a passing grade upon completion, but the student has not completed a course requirement, such as a final exam or final project, for emergency reasons.

Eligibility for a grade of INC

The grade of INC may be considered only for students who have consistently attended class and completed assignments throughout the course. Further, students receiving an INC must have been present in class regularly through the first 60% of the course.

A student who has evidenced an unsatisfactory course record, who has not attended class regularly through the first 60% of the course, who has failed to complete a major portion of an instructor's course requirements, or who fails to provide an instructor with a satisfactory reason for absence from a final examination or final course evaluation within the required period **may not** be assigned the letter symbol INC.

Process

A student has a 48-hour period from the time of the missed final exam or project due date to provide an acceptable explanation for their non-completion. If the student is not eligible for an INC either on the basis of the terms above or because they did not provide a satisfactory explanation in the required time frame, the faculty should calculate the grade according to the syllabus and submit the roster by the Registrar's due date.

Responsibility for making arrangements with an instructor to complete all outstanding course work rests entirely with the student, who must complete all course work by the final week of classes in the following semester.

At the end of the official make-up period (or, in the event of a substantiated student emergency, at the end of an extended make-up period), the Office of the Registrar will convert the temporary notation of INC to the appropriate permanent symbol. This permanent notation will be one of the following: 1) a letter grade which is filed by an instructor at the end of the make-up period to designate the final course standing of a student who has made up incomplete course requirements, 2) course work not completed by the final week of classes for the succeeding semester will convert to a grade of F, or 3) the letter symbol of X, which the dean of the college in which the student is enrolled as a degree candidate may authorize to designate that a student has withdrawn from the University after the end of the semester for documented personal emergency (cf. University Withdrawal After the End of the Semester), 4) Medical emergencies will need to complete the Request for Medical Withdrawal form.

Limited extensions of the make-up period may be granted to a student for serious medical reasons and for documented personal emergencies. Requests for such extensions are approved by the dean of the college in which student is enrolled as a degree candidate, and must be filed no later than one calendar week preceding the established deadline for instructors to submit final grades for incomplete courses.

Version showing changes:

INCOMPLETE COURSES

The symbol INC (incomplete) is a temporary notation ~~which~~that is assigned for incomplete work in courses when ~~the records of students justify~~a student's performance justifies the expectation that they will obtain a passing grade upon completion, but ~~the student has not completed a course requirement, such as a final exam or final project,~~ for emergency reasons ~~they~~_.

Eligibility for a grade of INC

~~The grade of INC may be considered only for students who have missed a minor part of consistently attended class and completed assignments throughout the course requirement. Any missed final examination or other final course evaluation requires a student explanation within 48 hours so. Further, students receiving an INC must have been present in class regularly through the instructor can file the proper course notation with the Office~~first 60% of the Registrar course.

A student who has evidenced an unsatisfactory course record, who has not attended class regularly through the first 60% of the course, who has failed to complete a major portion of an instructor's course requirements, or who fails to provide an instructor with a satisfactory reason for absence from a final examination or final course evaluation within the required period **may not** be assigned the letter symbol INC.

Process

A student has a 48-hour period from the time of the missed final exam or project due date to provide an acceptable explanation for their non-completion. If the student is not eligible for an INC either on the basis of the terms above or because they did not provide a satisfactory explanation in the required time frame, the faculty should calculate the grade according to the syllabus and submit the roster by the Registrar's due date.

Responsibility for making arrangements with an instructor to complete all outstanding course work rests entirely with the student, who must complete all course work by the final week of classes ~~for~~in the ~~succeeding~~following semester.

At the end of the official make-up period (or, in the event of a substantiated student emergency, at the end of an extended make-up period), the Office of the Registrar will convert the temporary notation of INC to the appropriate permanent symbol. This permanent notation will be one of the following: 1) a letter grade which is filed by an instructor at the end of the make-up period to designate the final course standing of a student who has made up incomplete course requirements, 2) course work not completed by the final week of classes for the succeeding semester will convert to a grade of F, or 3) the letter symbol of X, which the dean of the college in which the student is enrolled as a degree candidate may authorize to designate that a student has withdrawn from the University after the end of the semester for documented personal emergency (cf. University Withdrawal After the End of the Semester), 4) Medical emergencies will need to complete the Request for Medical Withdrawal form.

Limited extensions of the make-up period may be granted to ~~students~~a student for serious medical reasons and for documented personal emergencies. Requests for such extensions are approved by the dean of the college in which ~~students are~~student is enrolled as a degree candidate~~candidate~~, and must be filed no later than one calendar week preceding the established deadline for instructors to submit final grades for incomplete courses.

Current Catalog language:

INCOMPLETE COURSES

The symbol INC (incomplete) is a temporary notation which is assigned for incomplete work in courses when the records of students justify the expectation that they will obtain a passing grade, but for emergency reasons they have missed a minor part of the course requirement. Any missed final examination or other final course evaluation requires a student explanation within 48 hours so the instructor can file the proper course notation with the Office of the Registrar.

A student who has evidenced an unsatisfactory course record, who has failed to complete a major portion of an instructor's course requirements, or who fails to provide an instructor with a satisfactory reason for absence from a final examination or final course evaluation within the specified 48 hour period may not be assigned the letter symbol INC.

Responsibility for making arrangements with an instructor to complete all outstanding course work rests entirely with the student, who must complete all course work by the final week of classes for the succeeding semester.

At the end of the official make-up period (or, in the event of a substantiated student emergency, at the end of an extended make-up period), the Office of the Registrar will convert the temporary notation of INC to the appropriate permanent symbol. This permanent notation will be one of the following: 1) a letter grade which is filed by an instructor at the end of the make-up period to designate the final course standing of a student who has made up incomplete course requirements, 2) course work not completed by the final week of classes for the succeeding semester will convert to a grade of F, or 3) the letter symbol of X, which the dean of the college in which the student is enrolled as a degree candidate may authorize to designate that a student has withdrawn from the University after the end of the semester for documented personal emergency (cf. University Withdrawal After the End of the Semester), 4) Medical emergencies will need to complete the [Request for Medical Withdrawal form](#).

Limited extensions of the make-up period may be granted to students for serious medical reasons and for documented personal emergencies. Requests for such extensions are approved by the dean of the college in which students are enrolled as degree candidates and must be filed no later than one calendar week preceding the established deadline for instructors to submit final grades for incomplete courses.

Relevant federal policy:

The changes above are intended to ensure that our grading policies conform to our ability to address student financial aid disbursements in keeping with federal guidance.

"If a school has an incomplete grading policy that states that a student can only obtain an incomplete grade if the institution documents that they completed more than 60% of the payment period, then no R2T4 calculation needs to be performed unless the school needs to determine if any post-withdrawal disbursement (PWD) is owed for any aid that could have been disbursed. In this circumstance, if the institution determines that the student does have aid that could have been disbursed for the period and the student does not have any passing or "earned F" grades, the institution must perform the R2T4 calculation using the student's documented withdrawal date and make any applicable post-withdrawal disbursements."

Full policy available at:

<https://fsapartners.ed.gov/knowledge-center/fsa-handbook/2021-2022/vol5/ch2-steps-return-title-iv-aid-calculation-part-1>

American Sign Language Option

Students earning a Bachelor of Arts or a Bachelor of Liberal Arts degree at the University of Massachusetts Lowell (UML) are required to demonstrate intermediate level proficiency in a foreign language. The College of Fine Arts, Humanities, and Social Sciences (FAHSS) accepts intermediate level proficiency in American Sign Language (ASL) as an option for meeting the language requirement. For further details please visit Language [Requirement](#) for FAHSS.

The following four ASL courses from Northern Essex Community College (NECC) will be accepted as fulfillment of the language requirement:

1. **ASL 101** Elementary American Sign Language I (UML equivalent WLSI 1970 American Sign Language 1), offered by NECC Fall, Spring, and sometimes Summer.
2. **ASL 102** Elementary American Sign Language II (UML equivalent WLSI 1980: American Sign Language 2), offered by NECC Fall, Spring, and sometimes Summer.
3. **ASL 111** Intermediate American Sign Language I (UML equivalent WLSI 2950: Intensive ASL I), offered in Fall only.
[Note that students will be allowed to take this course ONLY if they have passed ASL 101 and 102 with a grade of 'C' or better, and they must obtain written permission in advance from the NECC Sign Language Studies Program Coordinator..
4. **ASL 112** Intermediate American Sign Language II (UML equivalent WLSI 2960), offered by NECC Spring only.

Course Format and Schedule

ASL courses are offered in a hybrid format, with approximately half the meetings conducted face-to-face in the classroom and half conducted online.

UML has no control over NECC course schedules. In order to complete the sequence on time, you must begin at least four semesters (Fall/Spring) prior to the academic year in which you expect to graduate. As with other language courses, these ASL courses are sequential, and thus will generally require a minimum of three or four academic semesters to complete. For information regarding the scheduled offering of these Northern Essex Community College (NECC) courses, go to <http://www.necc.mass.edu>.

Alternate/Substitute/Supplemental Courses

NECC offers additional courses in ASL and related areas for those who intend to work with the deaf community or as an interpreter. Psychology majors are encouraged to consider DST.101 (Introduction to Deaf Studies; UML equivalent WLAN 1990) as a supplemental course. This course is offered in Fall semesters in a virtual format. In general, UML requires its students to follow the four-course sequence outlined above for completion of the FAHSS language requirement.

World Language vs. World Ready

Students declaring ASL for their language requirement must follow the World Language Option. There is no World Ready option for ASL.

Credits/Residency for Students Completing ASL Courses as a NECCUM Student

NECC ASL courses are listed as 3-5 credits however only 3 credits per course completed will transfer in, consistent with UML language courses.

Required Grades

To have courses from other schools transferred to UMass Lowell you need to earn a grade of '**C-**' or higher in the courses but be aware of the NECC requirement that ASL 111 and 112 may only be taken if you earned a grade of '**C**' or better in both ASL 101 and 102.

Undergraduate Day School Students Only

Undergraduate full time matriculated "day" school students may take ASL courses through the NECCUM program for only. Students must have an established minimum GPA of 2.0 and be registered for at least 12 UML credits in order to be eligible to participate in the NECCUM program. Courses taken through the NECCUM program are considered part of your UML course load, and therefore do not carry any additional fees.

- The NECCUM program operates in the **Fall** and **Spring** terms only.
- Courses taken through the NECCUM program will transfer in as UML courses, and the grade earned at Northern Essex will be factored into your UML GPA and residency requirement.
- Information about the NECCUM program is available online on the UML [NECCUM website](#).
- The registration process is managed by the Registrar's Office. Interested students will need to send an email to Registrar@uml.edu, and you will be sent the Cross Registration form. This form must be signed by your Department Chair ("Academic Approval") and UML Registrar's Office ("Home Registrar"). The UML Registrar's Office will forward the application to the NECC ("Host

Registrar”) and send you confirmation of registration as well as an information sheet.

- Students are responsible for knowing the Northern Essex academic calendar and attendance policy. In addition, students must meet the Northern Essex Covid-19 vaccination requirements.
- Northern Essex will automatically send UML NECCUM student transcripts.

Graduate and Professional Studies (GPS) Undergraduate Students Only

- NECCUM is **not** available to students matriculated in the School of Graduate and Professional Studies programs.
- GPS undergraduate students may choose to enroll in ASL courses through NECC by completing the form and transferring the credits to UML. UML GPS students must have the signatures of their faculty advisor and department chair. GPS students are responsible for registering and paying for the credits at NECC. In addition, it is the student’s responsibility to ensure that a final transcript is sent to the UML Registrar’s office. Electronic transcripts should be sent to registrar@uml.edu.

Summer Courses

- All students wishing to take ASL courses during the summer terms will need to complete the [Prior Authorization for Off-Campus Course form](#) prior to taking the course. Students must have this form signed by their academic advisor and department chair prior to submitting the form to the Registrar’s Office.
- Note that for Residency purposes; ASL courses taken during the summer or evening are usually thought of as credits from a 2-year school and not UML credits, but if you need them to count toward UML residency, be sure to submit an Academic Petition along with the Authorization for Off-Campus Course form.
- Please note that SiS might not recognize ASL 111 or ASL 112 as sufficient to satisfy your foreign language proficiency requirement. If that occurs, you will need to submit a Student Exception form to the Department Chair for signature.

ROBOTICS MINOR

Truly interdisciplinary, robotics combines computer science, electrical engineering, mechanical engineering, and many other STEM (science, technology, engineering, and math)-related disciplines. UMass Lowell's Robotics minor allows students majoring in engineering, computer science, or another science to get the education they need to work in this exciting, ever-evolving field. Students from other colleges can take the Robotics minor but will have to take additional courses to satisfy prerequisites.

The minor in Robotics consists of 24 credits. Courses that are part of the minor, including its elective, may also be counted towards your major.

Required Courses (21 cr.)

- [COMP.1010](#) Computing I or [EECE.2160](#) Application Programming*
- [COMP.4500](#) Mobile Robotics I
- [EECE.2650](#) Logic Design
- [EECE.3170](#) Microprocessor Design I or [COMP.2030](#) Assembly Language Programming
- [ENGN.2050](#) Statics
- [ENGN.2070](#) Dynamics
- [EECE.4560](#) or [EECE.5560](#) Fundamentals of Robotics

*[COMP.1010](#) Computing I - for CS majors; [EECE.2160](#) Application Programming - for ECE majors; other majors can take either course to satisfy the programming requirement.

Elective Courses (3 cr.)

Choose one from the following:

- [COMP.4200](#) Artificial Intelligence
- [COMP.4240](#) or [COMP.5435](#) Reinforcement Learning
- [COMP.4510](#) Mobile Robotics II
- [MECH.4530](#) Mechatronics
- [EECE.4520](#) or [EECE.5520](#) Microprocessor Systems II & Embedded Systems
- [EECE.5800](#) Robotics, Automation and Machine Intelligence
- [COMP.5495](#) Robot Learning
- [COMP.5500](#) Topics: Human-Robot Interaction
- [COMP.5500](#) Topics: Assistive Robotics
- [MECH.5300](#) Autonomous Robotic Systems
- [MECH.5315](#) Modern Control Systems (every spring)
- [MECH.5540](#) Dynamic Systems and Controls (every Fall)
- [MECH.5550](#) Networked Multi-Agent Systems (every odd-numbered Fall)
- [MECH.5790](#) Robotics
- Department-specific Capstone or Senior Project course involving robotics, with approval of a member of the Robotics Minor Committee
- Other course, including Special Topics, with prior approval of Robotics Minor Committee

Notes:

- [COMP.4500](#) and many of the elective courses for the minor are not offered every semester. Please contact one of the Robotics minor coordinators to help plan your minor.
- For Computer Science majors in the Robotics minor:
 - You are required to take Physics I & Lab to satisfy four of the twelve required Natural Science Elective units. We also urge CS majors to take Physics II & Lab for another four Natural Science units.
 - We highly recommend that CS majors take Linear Algebra I as one of their technical or free electives.

For additional information or to declare a minor, please contact the robotics minor coordinator for your department:

Electrical and Computer Engineering: Paul Robinette paul_robinette@uml.edu

Mechanical Engineering: Kshitij Jerath kshitij_jerath@uml.edu

Computer Science: Maru Cabrera maru_cabrera@uml.edu



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Matthew A. Nugent, Ph.D.
Associate Dean for Research, Innovation
and Partnerships
Professor, Biological Sciences

KENNEDY COLLEGE OF SCIENCES

MEMO

DATE: June 7, 2022

TO: GPAC, Attn: Martha Burns

FROM: Matthew Nugent

RE: Proposed Admission Requirements for Direct Entry of St Anselm College Students

We are establishing a Memorandum of Understanding with St Anselm College to establish a direct entry path for Physics students at St Anselm College to be admitted into the MS in Physics program after completing their junior year at St Anselm College. The proposed policy is the same as that which was established for Endicott College. The policy for Endicott College was reviewed and approved by GPAC at its April, 2019 meeting. Thus, we are requesting to mirror these admissions standards for direct entry of qualified students from St Anselm. There are no changes to the MS program curriculum at UMass Lowell.

The Proposed admission standards have been approved by the Graduate Coordinator of the Physics Department, the Department Chair, and the KCS Graduate Curriculum Committee.

Attachments/

Proposal to for Direct Entry Admission Requirements
Curriculum matrix – Appendix A

Proposal for Change in Direct Entry Admission Requirements Per Memorandum of Understanding Between The University of Massachusetts Lowell and St Anselm College

The proposal is to enable direct entry for an MS degree program to follow a 4+1 model, which means that these students will complete the Bachelor's of Science degree requirements at Saint Anselm College and a minimum of one year at the University of Massachusetts Lowell for a minimum of 5 years total. The students will receive a Master's of Science degree from the University of Massachusetts Lowell upon meeting the degree requirements.

Alignment to Strategic Mission:

The UMass Lowell strategic 2020 plan emphasizes our commitment to building highly competitive disciplinary and interdisciplinary master's programs that position graduates to advance their careers and become leaders in existing and emerging industries. In line with this vision, the 2020 report card places significant emphasis on the need to increase our MS program headcount. In addition to strengthening our broader recruitment efforts, it is imperative to establish strategic partnerships with domestic and international universities to successfully recruit academically qualified and diverse graduate students. As a significant step in this direction, representatives from the Kennedy College of Sciences and Graduate Recruitment Teams have been working with Saint Anselm College to establish a strategic partnership with the objective of creating a pathway for Saint Anselm College graduates to enroll in select graduate programs at UMass Lowell.

UMass Lowell and Saint Anselm College, NH are in the process of developing a MOU with regard to the annual direct entry of selected undergraduate students of Saint Anselm College into the following degree programs offered in the Kennedy College of Sciences:

- Master's of Science in Physics

Admission Requirements for Progression to University of Massachusetts Lowell

Students at Saint Anselm College who have attained a cumulative GPA of 3.0 (with 3.2 in STEM courses) after the completion of their junior (3rd) year in their undergraduate program will be eligible to apply for this direct entry program. To matriculate into the Master's program at UMass Lowell, the student must have the undergraduate degree from Saint Anselm conferred and their cumulative GPA must be greater than or equal to 3.0 (with 3.2 in STEM courses) at the time of degree conferral.

Students who wish to be considered for this program will indicate their interest by submitting a letter of application to the Department Chair at Saint Anselm College in addition to completing the application form on the University of Massachusetts Lowell Graduate Admissions website.

The MS application fee and the requirement to include GRE scores will be waived for students who meet the direct-entry criteria; however, all other admissions requirements (see below) will still apply:

- Online application
- Statement of purpose,
- Two (2) letters of recommendation; one of the two letters of recommendation should be from a Saint Anselm College Physics faculty member.
- Official transcripts

Saint Anselm students who do not meet the direct-entry criteria may still apply for admission and may be provided with a waiver of the application fee and GRE requirement, at the discretion of the University of Massachusetts Lowell, on a case-by-case basis.

Scholarships

Upon matriculating to University of Massachusetts Lowell, Saint Anselm College students have the same opportunities as other University of Massachusetts Lowell students to compete for various scholarships offered by the University of Massachusetts Lowell.

Completion of the MS degree in a single 5th year is not guaranteed and requires successful fulfillment of all pre-requisite requirements delineated in the curriculum matrix (See Appendix A for the MOU) along with the respective MS degree requirements. Saint Anselm students will have the option of completing some pre-requisite requirements at the University of Massachusetts Lowell concurrently with their Bachelor of Science degree in Physics at Saint Anselm College, and these pre-requisite courses can be used as electives towards fulfillment of their undergraduate program at Saint Anselm College.

Students who qualify for direct enrollment into UML MS programs may count up to 6 credits of graduate courses taken prior to direct enrollment date towards both UML MS degree and St Anselm undergraduate degree.

FOR NEW CERTIFICATES, OPTIONS, PROGRAMS, AND DEGREES

<hr/> Date	<hr/> <i>Viktor Podolskiy</i> Graduate Coordinator- MS Physics
<hr/> Date	<hr/> <i>Parth Chowdhury</i> Chair of Physics and Applied Physics indicating that A majority of faculty in the department have approved the attached proposal
<hr/> <u>6/7/22</u> Date	<hr/> <i>Matthew Nugent</i> Associate Dean indicating College approval of proposal
<hr/> Date	<hr/> GPAC chairperson Indicating approval of proposal
<hr/> Date	<hr/> Senate Executive Committee Chairperson indicating approval of Proposal
<hr/> Date	<hr/> Faculty Senate President or Designee indicating approval of proposal



DEPARTMENT OF PLASTICS ENGINEERING

Ball Hall
One University Avenue
Lowell, MA 01854

Phone: 978-934-2937
Fax: 978-934-3089
E-mail: amy_peterson@uml.edu

September 8, 2022

Dear Members of the Graduate Policy and Affairs Committee,

The Faculty of Plastics Engineering respectfully ask that GPAC approve the addition of the Plastics Engineering Master of Science in Engineering to the articulation agreement between the University of Massachusetts Lowell and Endicott College (attached). The Plastics Engineering faculty voted unanimously in favor of joining this articulation agreement at the September 7, 2022 department meeting. The Dean of the Francis College of Engineering fully supports this request.

The motivation for this request to add our participation in the articulation agreement came from a Bachelor of Science in Engineering student at Endicott College who is interested in pursuing a Plastics Engineering Master of Science in Engineering. This student provides evidence that there is interest in the Plastics Engineering Master of Science in Engineering for Endicott students. We therefore want to support this pipeline of talent into our program.

The agreed upon curriculum matrix is as follows:

1. UML program name: Master of Science Plastics Engineering
 - a. Related Endicott program name: Bachelor of Science in Engineering
 - b. Other courses needed for direct-entry not included in the required Endicott curriculum:
 - i. Endicott students need to successfully complete @ UMass Lowell:
 1. PLAS.5440 Advanced Plastics Materials
 2. PLAS.5780 Advanced Plastics Processing
 - c. Recommend courses that are not required
 - i. N/A

Please let me know if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy M. Peterson'.

Amy M. Peterson, Ph.D.
Associate Professor and Associate Chair for Master's Studies
Department of Plastics Engineering
University of Massachusetts Lowell

Attachment: Memorandum of Agreement between Endicott College and University of Massachusetts Lowell



Memorandum of Agreement
between
Endicott College
and
University of Massachusetts Lowell

Preamble

This document describes the formal agreement between Endicott College and the University of Massachusetts Lowell (UMass Lowell) with regard to the annual direct entry of selected undergraduate students of Endicott College into the following degree programs offered by the University of Massachusetts Lowell:

- MS in chemical engineering
- MS in civil engineering
- MS in computer engineering
- MS in electrical engineering
- MS in energy engineering
- MS in engineering management
- MS in mechanical engineering
- MS in biological sciences
- MS in computer science
- MS in earth, environmental, and atmospheric science
- MS in environmental studies
- MS in mathematical science

Direct entry for an MS degree program will follow a 4+1 model, which means that these students will complete the bachelor's degree requirements at Endicott College and a minimum of one year at the University of Massachusetts Lowell for a minimum of 5 years total. The

students will receive an MS degree from the University of Massachusetts Lowell upon meeting the degree requirements.

Completion of the MS degree in a single 5th year is not guaranteed and requires successful fulfillment of all pre-requisite requirements delineated in the attached curriculum matrix document along with the respective MS degree requirements. Endicott students will have the option of completing some pre-requisite requirements at UMass Lowell concurrently with their BS degree program at Endicott College, and these pre-requisite courses can be used as electives towards fulfillment of their undergraduate program at Endicott College.

Both parties agree to extend this cooperation to master's degree programs in other disciplines at each university. Both parties also agree to work together to compare and develop the curricula and course mapping necessary to ensure that the courses at Endicott College and the University of Massachusetts Lowell are compatible.

Requirements for Progression to University of Massachusetts Lowell

Students at Endicott College who have attained a Cumulative Grade Point Average (CGPA) of 3.20 after the completion of their junior (3rd) year in their undergraduate program will be eligible to apply for this direct-entry program. To matriculate into the master's program at UMass Lowell, the student must have the undergraduate degree from Endicott conferred and the CGPA must be greater than or equal to 3.20 at the time of degree conferral.

Students who wish to be considered for this program will indicate their interest by submitting a letter of application to the appropriate Endicott College official (i.e., Dean of Arts and Sciences) in addition to completing the application form on the University of Massachusetts Lowell Graduate Admissions website. Endicott College will submit a recommendation letter acknowledging the qualifications of the student that will accompany the student's application for admission into the selected MS program. The MS application fee and the requirement to include GRE scores will be waived for students who meet the direct-entry criteria; however, all other admissions requirements (see below) will still apply:

- Online application
- Statement of purpose,
- Three (3) letters of recommendation
 - one of the three letters of recommendation must be the letter from the Endicott College official (i.e., Dean of Arts and Sciences)
- Official transcripts
- CGPA requirements are fully met

Students who do not meet the direct-entry criteria may still apply for admission into a master's program. These students may be provided with a waiver of the application fee and GRE requirement, at the discretion of the University of Massachusetts Lowell, on a case-by-case basis.

All final admission decisions to the University of Massachusetts Lowell Master's programs rests solely with UMass Lowell.

Quality Assurance

Endicott College and the University of Massachusetts Lowell will form one committee together to develop an appropriate quality assurance mechanism to ensure that students are well prepared before they enter the University of Massachusetts Lowell. Details of the composition of this committee will be discussed further and agreed upon at a later date. Representatives from both institutions may, with permission of the instructor, attend classes at the other institution and review syllabi, homework, and project assignments. With permission of the student, they may also review that individual student's work.

Each year the committee will review the curriculum matrix in Appendices A & B to ensure course requirements are updated as needed. Any recommended and approved changes will be recorded as an update to this Memorandum of Agreement.

Scholarships

Upon matriculating to University of Massachusetts Lowell, Endicott College students have the same opportunities as other University of Massachusetts Lowell students to compete for various scholarships offered by the University of Massachusetts Lowell.

Publicity

Representatives may not use any identifying logos or marks of UML without the express written permission of UML in the form of the Combined License Agreement for Trademark Use as included in Appendix C. Furthermore, each party may display only those trade names, trademarks, services marks, logos, domain names, and other distinctive brand features ("Brand Features") of the other party, respectively, as authorized by the other party. Neither party may display or use the other party's Brand Features beyond what is allowed in this agreement without the other party's prior written consent. All other rights and interests concerning the content or intellectual property owned by the university are reserved by the university.

Non-transferability

No roles or responsibilities may be transferred to a third party. This agreement applies only to the relationship between Endicott College and the University of Massachusetts Lowell.

Validity

The arrangements in this memorandum will come into force from the date of its signing and will

remain in force for a period of five (5) years unless terminated by either party in accordance with the terms of this MOU. This MOU may be renewed for another period of three (3) years upon mutual written consent of the parties before the expiration date. This MOU is made in English and each institution will have copies of the agreement.

Termination

Either institution may terminate this agreement by giving six months' notice to the other institution. If such notice is given, both parties agree to ensure that all commitments to existing or accepted students are honored.

In the event that obligations agreed to in this memorandum are not fulfilled, either party can suspend or withdraw from the agreement with immediate effect.

The following authorized individuals have signed the present MOU on behalf of their respective institutions:

FOR ENDICOTT COLLEGE

FOR UNIVERSITY OF MASSACHUSETTS LOWELL

Laura Rossi-Le
Vice President and Dean of the
Undergraduate College

Joseph Hartman
Provost

Appendix A

Curriculum Matrix for Progression to MS

Kennedy College of Sciences, UMass Lowell

1. **UML program name: Master of Science Computer Science degree pathway**
 - **Related Endicott program name: Bachelor of Science in Computer Science**
 - **Other courses needed for direct-entry not included in required Endicott curriculum that would need to be successfully completed as electives or additional courses at UMass Lowell**
 - Students would have to **successfully completed specific electives (@Endicott)** to be better prepared for BIOL courses at UMass Lowell program.
 - MTH 136 Calculus II
 - MTH 260 Applied Probability
 - MTH 316 Statistics
 - **Endicott students need to successfully completed @ UMass Lowell:**
 - COMP.3010 Organization of Programming Languages
 - COMP.3040 Foundations of Computer Science
 - COMP.4040 Analysis of Algorithms
 - **Recommend courses that are not required**
 - N/A

2. **UML program name: Master of Science Biological Science degree pathway**
 - **Related Endicott program name: Bachelor of Science in Environmental Science**
 - **Other courses needed for direct-entry not included in required Endicott curriculum**
 - Students would have to **successfully completed specific electives (@Endicott)** to be better prepared for BIOL courses at UMass Lowell program.
 - BIO 320/320L Cell and Molecular Biology and Lab
 - PHY 201/201L Physics with Calculus I and Lab
 - CHE 207/207L Organic Chemistry and Lab
 - **Recommended, but not required, courses that could be successfully completed at Endicott College to help make the students application more competitive**
 - BEN 420 Biomechanics
 - BIO 292/292L Microbiology and Lab
 - BIO 311/311L Genes and Genomes and Lab
 - BIO 326/326L Immunology and Lab
 - BIO 350 Human Embryology

3. **UML program name: Master of Science Environmental Studies – Option Environmental Geoscience**
 - **Related Endicott program name: Bachelor of Science in Environmental Science**
 - **Other courses needed for direct-entry not included in required Endicott curriculum**
 - Students would have to **successfully completed specific electives below (@Endicott)** to be better prepared for Environmental Studies courses at UMass Lowell program.
 - ENV 122/122L Geology and Lab
 - PHY 201/201L Physics with Calculus I and Lab
 - ENV 216 Natural Disasters and Catastrophes
 - HIST 380 Environmental History
 - **Recommend courses that are not required**
 - N/A

4. **UML program name: Master of Science Mathematical Science degree pathway**
 - **Related Endicott program name: Bachelor of Science in Applied Mathematics**
 - **Other courses needed for direct-entry not included in required Endicott curriculum**
 - There are no pre-requisites missing for the MSE in Mathematical Science. i.e., applied math - actuary graduates could matriculate directly into the program.
 - **Recommend courses that are not required**
 - N/A

5. **UML program name: Master of Science Biological Science degree pathway**
 - **Related Endicott program name: Bachelor of Science in Biology/Biotechnology**
 - **Other courses needed for direct-entry not included in required Endicott curriculum**
 - The students from this option would be equipped to enter into an MS program
 - **Recommend courses @ Endicott that are not required**
 - PHY 107/107L Physics I and Lab
 - PHY 108/108L Physics II and Lab

Appendix B

Curriculum Matrix for Progression to MS

Francis College of Engineering, UMass Lowell

1. **UML program name: Master of Science Civil and Environmental Engineering degree pathway - Environmental option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. CHE 106/106L General Chemistry II and Lab
 - ii. EGR 360 Environmental Engineering
 - c. **Recommend courses that are not required:**
 - i. N/A

2. **UML program name: Master of Science Civil and Environmental Engineering degree pathway - Geotechnical option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully completed @ UMass Lowell:**
 1. CIVE.3100 Engineering Materials
 2. CIVE.3300 Soil Mechanics
 3. CIVE.3500 Structural Analysis
 4. CIVE.4310 Foundations & Soil Engineering
 - c. **Recommend courses that are not required:**
 - i. N/A

3. **UML program name: Master of Science Civil and Environmental Engineering degree pathway - Geoenvironmental option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete:**
 1. EGR 360 Environmental Engineering @ Endicott
 2. CHEM 106 General Chemistry II and Lab @ Endicott
 3. CIVE.3100 Engineering Materials @ UMass Lowell
 4. CIVE.3300 Soil Mechanics @ UMass Lowell
 5. CIVE.4310 Foundations & Soil Engineering @ UMass Lowell
 - c. **Recommend courses that are not required**

- i. N/A
- 4. **UML program name: Master of Science Civil and Environmental Engineering degree pathway - Structures option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete @ UMass Lowell:**
 1. CIVE.3100 Engineering Materials
 2. CIVE.3500 Structural Analysis
 3. CIVE.3520 Reinforced Concrete Design
 4. CIVE.4520 Steel Design
 5. CIVE.3300 Soil Mechanics
 6. CIVE.4310 Foundations & Soil Engineering
 - c. **Recommend courses that are not required**
 - i. N/A
- 5. **UML program name: Master of Science Civil and Environmental Engineering degree pathway - Transportation option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete@ UMass Lowell:**
 1. CIVE.3400 Transportation Engineering
 - c. **Recommend courses that are not required**
 - i. N/A
- 6. **UML program name: Master of Science Environmental Studies – Environmental Engineering Sciences option**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students in Engineering may apply directly to this program.**
 - c. **Recommend courses that are not required**
 - i. N/A
- 7. **UML program name: Master of Science Environmental Studies – Environmental Engineering Sciences option**
 - a. **Related Endicott program name: Bachelor of Science in Environmental Science**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete @ Endicott:**
 1. MTH 134 Calculus I
 2. MTH 136 Calculus II

- c. **Recommend courses that are not required**
 - i. N/A

- 8. **UML program name: Master of Science Mechanical Engineering degree pathway**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete @ UMass Lowell:**
 1. MECH.3820 Heat Transfer
 2. MECH.3110 Applied Strength
 - c. **Recommend courses that are not required**
 - i. N/A

- 9. **UML program name: Master of Science Mechanical Engineering degree pathway**
 - a. **Related Endicott program name: Bachelor of Science in Applied Mathematics**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. **Endicott students need to successfully complete @ UMass Lowell:**
 1. MECH.3820 Heat Transfer
 2. MECH.3110 Applied Strength
 - ii. **Endicott students need to successfully complete @ Endicott:**
 1. MTH 330 Ordinary Differential Equations
 2. EGR 310 Strength of Materials
 3. EGR 330 Thermodynamics
 - c. **Recommend courses that are not required**
 - i. N/A

- 10. **UML program name: Master of Science Energy Engineering (Renewable) degree pathway**
 - a. **Related Endicott program name: Bachelor of Science in Engineering**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**
 - i. There are no missing courses—Endicott engineering students can apply directly to the MSE in Energy Engineering (Renewable).
 - c. **Recommend courses that are not required**
 - i. N/A

- 11. **UML program name: Master of Science Energy Engineering (Renewable) degree pathway**
 - a. **Related Endicott program name: Bachelor of Science in Applied Mathematics**
 - b. **Other courses needed for direct-entry not included in required Endicott curriculum**

- i. There are no missing courses—Endicott engineering students can apply directly to the MSE in Energy Engineering (Renewable).

c. Recommend courses that are not required

- i. N/A

12. UML program name: Master of Science Energy Engineering (Nuclear) degree pathway

a. Related Endicott program name: Bachelor of Science in Engineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

i. Endicott students need to successfully complete @ Endicott:

- 1. EGR 430 Transport Phenomena
- 2. EGR 460 Energy Systems Design

ii. Endicott students need to successfully complete @ UMass Lowell:

- 1. Required engineering fundamentals
 - a. CHEN.3040 Heat Transfer (available during summer session)
- 2. Required nuclear engineering fundamentals ANY 3 of the following 4
 - a. ENGY.3310 Fundamentals of Nuclear Science and Engineering
 - b. ENGY.4340 Nuclear Reactor Theory
 - c. ENGY.4350 Reactor Engineering
 - d. RADI.5090 Nuclear Instrumentation

c. Recommend courses that are not required

- i. N/A

13. UML program name: Master of Science Energy Engineering (Nuclear) degree pathway

a. Related Endicott program name: None Engineering majors (Arts and Sciences)

b. Other courses needed for direct-entry not included in required Endicott curriculum

i. Endicott students need to successfully complete @ Endicott:

- 1. EGR 210 Materials Science
- 2. EGR 215 Probability and Statistics for Engineering
- 3. EGR 330 Thermodynamics
- 4. EGR 340 Fluid Mechanics
- 5. EGR 450 Mathematical Modeling for Engineering

ii. Endicott students need to successfully complete @ UMass Lowell:

- 1. Required engineering fundamentals
 - a. CHEN.3040 Heat Transfer (available during summer session)
- 2. Required nuclear engineering fundamentals ANY 3 of the following 4
 - a. ENGY.3310 Fundamentals of Nuclear Science and Engineering
 - b. ENGY.4340 Nuclear Reactor Theory

- c. ENGY.4350 Reactor Engineering
- d. RAD1.5090 Nuclear Instrumentation

c. Recommend courses that are not required

- i. N/A

14. UML program name: Master of Science Engineering Management degree pathway

a. Related Endicott program name: Bachelor of Science in Engineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

- i. Endicott students need to successfully complete @ UMass Lowell (ONLINE or on-campus) any two of the courses below to satisfy their two required electives:
 - 1. MECH.5710 Collaborative Engineering and Quality
 - 2. MECH.5740 Design for Reliability Engineering
 - 3. MECH.5750 Industrial Design of Experiments
 - 4. MECH.5760 Engineering Project Management

c. Recommend courses that are not required

- i. N/A

15. UML program name: Master of Science Chemical Engineering degree pathway

a. Related Endicott program name: Bachelor of Science in Engineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

- i. CHE 207 Organic Chemistry I and Lab @ Endicott
- ii. Endicott students need to successfully complete @ UMass Lowell (most courses are available in summer session)
 - 1. CHEM.3440 Physical Chemistry I
 - 2. CHEN.3040 Heat Transfer
 - 3. CHEN.3100 Separation Process/Mass Transfer
 - 4. CHEN.3110 Chemical Engineering Thermodynamics
 - 5. CHEN.4030 Chemical Reaction Engineering

c. Recommend courses that are not required

- i. N/A

16. UML program name: Master of Science Chemical Engineering degree pathway

a. Related Endicott program name: Bachelor of Science in Bioengineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

- i. CHE 207/207L Organic Chemistry I and Lab @ Endicott
- ii. Endicott students need to successfully complete @ UMass Lowell (most courses are available in summer session)
 - 1. CHEM.3440 Physical Chemistry I
 - 2. CHEN.3030 Fluids Mechanics
 - 3. CHEN.3040 Heat Transfer

4. CHEN.3100 Separation Process/Mass Transfer
5. CHEN.3110 Chemical Engineering Thermodynamics
6. CHEN.4030 Chemical Reaction Engineering

c. Recommend courses that are not required

- i. N/A

17. UML program name: Master of Science Computer Engineering degree pathway

a. Related Endicott program name: Bachelor of Science in Engineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

- i. Endicott students need to successfully complete @ UMass Lowell
 1. EECE.2650 Logic design
 2. EECE.3650 Electronics I
 3. EECE.3110 Electronics Lab I
 4. EECE.3170 Microprocessor Systems Design
 5. EECE.3620 Signal and Systems
 6. EECE.3640 Engineering Mathematics (or another appropriate advanced course beyond MATH.2310 Calculus III and MATH.2360 Engineering Differential Equations)

c. Recommend courses that are not required:

- i. N/A

18. UML program name: Master of Science Electrical Engineering degree pathway

a. Related Endicott program name: Bachelor of Science in Engineering

b. Other courses needed for direct-entry not included in required Endicott curriculum

- i. Endicott students need to successfully complete @ UMass Lowell
 1. EECE.2650 Logic design
 2. EECE.3600 Engineering Electromagnetics
 3. EECE.3650 Electronics I
 4. EECE.3110 Electronics Lab I
 5. EECE.3170 Microprocessor Systems Design I
 6. EECE.3620 Signal and Systems I
 7. EECE.4130 Linear Feedback Systems

c. Recommend courses that are not required:

- i. N/A

APPENDIX C

SAMPLE COMBINED LICENSE AGREEMENT FOR TRADEMARK USE

Please contact Evelin Szymborn, Director of Trademarks for the University of Massachusetts, at (413) 577-8125 or eszymbor@umass.edu about permission to use any UML trademarks, logos, etc.



University of Massachusetts System

Trademark and Licensing Administration

Room 920 Campus Center Evelin Szymborn, Interim-Director
1 Campus Center Way, Phone: 413-577-8125
Amherst, MA 01003 Email: eszymbor@umass.edu
<https://www.umassauxiliaryservices.com/licensing/>

Combined Non-Exclusive License Agreement to Use Certain Marks of the University of Massachusetts (to be used in conjunction with any University Agreement that calls for the use of the University marks)

1. PURPOSE

This Combined Non-Exclusive License Agreement (“License Agreement”) is made by and between the University of Massachusetts through its University of Massachusetts Trademark Administration and Licensing Office (hereinafter called "LICENSING") and Endicott College, located in Beverly, Massachusetts (hereafter referred to as “Representative”).

WHEREAS, Representative desires to be licensed to utilize certain trade names, symbols, designs and other trademarks of the University of Massachusetts Lowell (hereafter referred to as “UML or University”) in connection with the services listed in the Representative Agreement, dated as of February 15, 2019 (the “Agreement”) made by Representative and UML. All use of

the trade names, symbols, designs and other trademarks of UML are subject to the terms and conditions of the Agreement and the additional terms and conditions of this License Agreement.

2. TERM (Date of Execution)

The term of this License Agreement shall be concurrent with the Agreement commencing on, February 15, 2019 and ending on February 15, 2022. If the Agreement automatically renews or is extended, then this License Agreement will automatically be renewed or extended for the same term as the Agreement. Should the Agreement terminate for any reason, this License Agreement will terminate immediately.

3. DEFINITIONS

“Licensed Indicia” means the trade names, symbols, designs and other trademarks of UML that have been approved for use in connection with the Agreement, including but not limited to the name UMASS Lowell and associated logos, designs and marks. The Licensed Indicia also may include any additional Licensed Indicia adopted, used and approved for use by LICENSING.

4. GRANT OF LICENSE

4.1 Grant - subject to the terms and conditions of this License Agreement and the Agreement, LICENSING hereby grants Representative a non-transferable, non-exclusive license to use the Licensed Indicia on, and in conjunction with the delivery, marketing, advertising and promotion of the services contemplated in the Agreement.

4.2 Limitations on License - No license is granted hereunder for the use of the Licensed Indicia for any purpose other than upon or in connection with the services and uses described in this License Agreement and Agreement.

4.3 Non-Exclusivity - nothing in this License Agreement or Agreement shall be construed to prevent UML from licensing the use of the Licensed Indicia to any other party for any purpose including, without limitations, the grant of other Licenses to other service providers or manufacturers during the term of this agreement for use of the Licensed Indicia in connection with licensed services or products either within or outside the United States.

5. APPROVAL AND QUALITY STANDARDS

LICENSING reserves the right to disapprove and prevent the distribution of any service or article bearing the Licensed Indicia of UML that does not meet its standards of quality and propriety.

Representative agrees that all licensed use of the Licensed Indicia in promotions, advertising and marketing shall contain the appropriate legends, markings and/or notices as required by UML and/or LICENSING. Representative agrees that each usage of Licensed Indicia shall be followed by either "TM" TM or "R" [®], pursuant to LICENSING's instructions. All such legends, markings, and/or notices must be provided to Representative by LICENSING and/or UML.

Representative agrees that it will not use any Licensed Indicia or any reproduction thereof in any advertising or promotional material in any manner that may distract from or impair the integrity, character, and dignity of the Licensed Indicia or reflect unfavorably upon the University of Massachusetts.

Representative shall not use the Licensed Indicia in connection with sweepstakes, lotteries, alcoholic beverages, tobacco, sexually oriented products or services or in violation of the policies of UML.

If Representative submits any material bearing the Licensed Indicia to LICENSING or UML to obtain their approval for the use of such material, LICENSING or UML, as the case may be, shall approve or disapprove the use of such materials within five (5) business days of the date of submission. If LICENSING or UML, as the case may be, does not respond within such five-business day period, then the use of such materials, as submitted, shall be deemed to have been approved.

6. PROTECTION OF UMASS LICENSED INDICIA

Representative acknowledges and agrees that UML is the sole and exclusive owner of all right, title and interest in and to the Licensed Indicia. Representative agrees that nothing in this License Agreement or the Agreement, gives Representative any right, title or interest in the Licensed Indicia other than the right to use them in accordance with this License Agreement. During the term of this License Agreement and thereafter, Representative will not contest or otherwise challenge or attack UML's rights in the Licensed Indicia or the validity of this Agreement.

Representative acknowledges that its breach of this License Agreement will result in immediate and irreparable damage to the UML and that money damages alone would be inadequate to compensate UML. Therefore, in the event of a breach or threatened breach of this Licensing Agreement by Representative, UML may, in addition to other remedies, immediately obtain and enforce injunctive relief prohibiting the breach or compelling specific performance.

Representative agrees to assist in the protection of the Licensed Indicia. Representative will, upon specific request from UML, provide documentation and/or specimens regarding use of each Licensed Indicia.

Representative acknowledges that they will have no ownership rights in the Licensed Indicia should the Licensed Indicia appear in conjunction with copyright materials created or held by Representative.

7. GOODWILL IN LICENSED INDICIA

Representative recognizes the value of the goodwill associated with the Licensed Indicia and acknowledges that the Licensed Indicia and all rights therein and the goodwill pertaining to the

Licensed Indicia belong exclusively to UML. Representative further recognizes that the Licensed Indicia have acquired secondary meaning.

Representative agrees that its use of the Licensed Indicia will benefit UML and that Representative will not acquire any rights in the Licensed Indicia by virtue of the use of the Licensed Indicia under this License Agreement or the Agreement.

8. INDEMNIFICATION/ HOLD HARMLESS

UML shall have no liability for any licensed service or product produced or offered by Representative and Representative shall hold harmless and defend UML and its trustees, officers, employees and agents thereof, from any and all product or service liability claims, demands causes of action, or damages, including reasonable attorney's fees, caused by or arising from services or products produced or sold by Representative or out of any action by Representative in using Licensed Indicia in connection with the distribution or sale of services or any other use of the Licensed Indicia in advertising, marketing or promotion.

9. CONFORMITY TO LAW

Representative undertakes and agrees that the use of the Licensed Indicia in services, promotions, advertising and/or marketing shall be in conformity with all applicable Federal, State and local laws, ordinances, regulations and rules.

10. SEVERABILITY

In the event that any portion of this License Agreement is declared invalid or unenforceable for any reason, such portion is deemed severable here from and the remainder of this License Agreement shall be deemed to be, and shall remain, fully valid and enforceable

11. WAIVER

Failure of either party to require the performance of any term in this License Agreement or the waiver by either party of any breach thereof shall not prevent subsequent enforcement of such term nor be deemed a waiver of any subsequent breach.

12. ENFORCEMENT

Representative agrees to assist UML in the enforcement of any rights UML has in the Licensed Indicia as it relates to this Licensing Agreement. Representative agrees to notify UML of any infringements by third parties that come to Representative's attention as the result of the services provided in conjunction with the Agreement. UML shall have the sole right and discretion to bring infringement proceedings involving the Licensed Indicia. However, nothing in this License Agreement shall require UML to bring suit or take action for the infringement of any of the Licensed Indicia.

13. LIABILITY INSURANCE

Representative will provide a copy of a certificate of Insurance to the Trademark and Licensing Administration at Room 920 Campus Center, University of Massachusetts, Amherst, MA 01003. Representative will obtain and maintain insurance in accordance with the terms of the Agreement.

14. TERMINATION

This Agreement will terminate simultaneously with any termination of the Agreement.

15. NOTICE

All notices, consents, waivers, statements and other communications concerning the use of the Licensed Indicia by Representative must be sent to each party at the addresses below unless notification of change of address is given in writing. Any notice is to be sent by First -Class mail. Fed X, UPS, or other carrier or telegram and will be considered to have been given at the time the mail is received. Artwork and approvals can be sent via E-mail, First -Class mail. Fed X, UPS or by FAX.

University of Massachusetts System
Trademark and Licensing Administration
Attn: Evelin Szyborn, Interim-Director
Room 920 Campus Center
Amherst, Massachusetts 01003
E-mailto: eszymbor@umass.edu
Tel: 413-577-8125

16. ENTIRE AGREEMENT

This Agreement constitutes the entire Non-Exclusive License Agreement to use certain Licensed Indicia of UML. **Although, certain parts of this Licensing Agreement interact with certain sections of the Agreement, this License Agreement is to be considered a separate and independent agreement.** This License Agreement shall terminate immediately in conjunction with any termination of the Agreement. Both the License Agreement to use Licensed Indicia of UML and the Agreement between UML and Representative must be executed simultaneously to validate this License Agreement. This License Agreement supersedes all prior understandings and agreements between the parties with respect to the use of the Licensed Indicia by Representative. This License Agreement governs the use of Licensed Indicia. All other terms relating to the agreed upon services for UML are governed by the Agreement.

17. LAWS GOVERNING

This License Agreement and any controversy arising from it is governed by the laws of the Commonwealth of Massachusetts

Each party shall comply with all laws, regulations and standards relating or pertaining to the services agreed upon in the Agreement and shall comply with the requirements of any regulatory agencies which shall have jurisdiction over such services.

IN WITNESS WHEREOF, the parties have caused this instrument to be executed by their duly authorized officers or agents on the date of commencement written in **Section 2. TERM** of the License Agreement.

ENDICOTT COLLEGE

**UNIVERSITY OF MASSACHUSETTS
Trademark & Licensing Administration**

Laura Rossi-Le
Vice President and Dean of the
Undergraduate College

Ms. Evelin Szymborn
Director



DEPARTMENT OF PLASTICS ENGINEERING

Ball Hall
One University Avenue
Lowell, MA 01854

Phone: 978-934-2937
Fax: 978-934-3089
E-mail: amy_peterson@uml.edu

June 30, 2022

Dear Members of the Graduate Policy and Affairs Committee,

The Plastics Engineering Department would like to reinstate a graduate certificate in Elastomeric Materials.

The proposed curriculum is:

Required courses:

PLAS.5350 Rubber Technology

PLAS.5950 Thermoplastic Elastomers

Elective courses (choose two):

PLAS.5060 Polymer Structure, Properties, and Applications

PLAS.5440 Advanced Plastics Materials

PLAS.5490 Product Design with Elastomers

PLAS.5500 Processing with Elastomers

PLAS.5780 Advanced Plastics Processing

PLAS.5960 Plastics, Elastomers and Additives from Renewable Resources

We are revitalizing coursework in the area of rubbers/elastomers and the American Chemical Society (ACS) Rubber Division is promoting these courses. Given the ongoing importance of elastomeric materials in transportation, apparel, medical devices, flexible electronics, and more, we are excited about this curriculum and think that there will be good levels of student interest.

The Plastics Engineering faculty voted via email to approve reinstating the Elastomeric Materials Graduate Certificate, with a tally of 14 for reinstating, 0 against reinstating, and 1 abstaining. Associate Dean Aghara is in favor of reinstating the program, as evidenced by the attached email correspondence.

We hope that you will approve the reinstating of the Elastomeric Materials Graduate Certificate. Please let me know if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amy M. Peterson'.

Amy M. Peterson, Ph.D.

Associate Professor and Associate Chair for Master's Studies
Department of Plastics Engineering
University of Massachusetts Lowell

From: [Aghara, Sukesh](#)
To: [Peterson, Amy M](#)
Cc: [Barry, Carol](#); [Long, Sokny A](#); [Haines, Paula](#)
Subject: Re: Reinstating the Elastomeric Materials Certificate
Date: Thursday, June 30, 2022 10:28:47 AM

Dear Amy:

I am in favor of this proposal and approve. I wonder if this needs to be done through curricula log. I am copying Paula Haines to clarify. Also, it may need to go through GPAC (as this will led to a change in grad catalog).

Thanks,
Sukesh

--

Sukesh Aghara, Ph.D.

Associate Dean for Research, Francis College of Engineering
Professor, Nuclear @ UMass Lowell
Phone: 978 934-3115

From: Peterson, Amy M <Amy_Peterson@uml.edu>
Date: Wednesday, June 29, 2022 at 1:42 PM
To: Aghara, Sukesh <Sukesh_Aghara@uml.edu>
Cc: Barry, Carol <Carol_Barry@uml.edu>
Subject: Reinstating the Elastomeric Materials Certificate

Dear Associate Dean Aghara,

The Plastics Engineering Department would like to reinstate a graduate certificate in Elastomeric Materials. We have spoken with Bryan Buchholz and Debbie White, and have agreed that the process for reinstatement is a department vote and approval from you or Dean Sherwood.

The proposed curriculum is:

Required courses:

PLAS.5350 Rubber Technology

PLAS.5950 Thermoplastic Elastomers

Elective courses (choose two):

PLAS.5060 Polymer Structure, Properties, and Applications

PLAS.5440 Advanced Plastics Materials

PLAS.5490 Product Design with Elastomers

PLAS.5500 Processing with Elastomers

PLAS.5780 Advanced Plastics Processing

PLAS.5960 Plastics, Elastomers and Additives from Renewable Resources

We are revitalizing coursework in the area of rubbers/elastomers and the ACS Rubber Division is promoting these courses. Given the ongoing importance of elastomeric materials in transportation,

apparel, medical devices, flexible electronics, and more, we are excited about this curriculum and think that there will be good levels of student interest.

The Plastics Engineering faculty voted via email to approve reinstating the Elastomeric Materials Graduate Certificate, with a tally of 14 for reinstating, 0 against reinstating, and 1 abstaining.

We hope that you will approve the reinstating of the Elastomeric Materials Graduate Certificate. Please let me know if you have any questions or require additional information.

Sincerely,
Amy

Amy M. Peterson
Associate Professor and Associate Chair for Master's Studies
Department of Plastics Engineering
University of Massachusetts Lowell
amy_peterson@uml.edu
978-934-2937

Pronouns: she/her

**Please know that I care about and respect boundaries around personal time, well-being, caretaking, and rest. Should you receive an email from me during a time that you're engaging in any of the above, please protect your time and wait to respond until you're next working. Prioritize joy, not email, when and where you can. **