

Name:

UIN:

Advisor: Dr. Jiajun He jiajunhe@illinois.edu

Date:

Check student type: online on-campus:

Chosen Track (optional): Energy

ME / TAM Coursework 12 hours minimum	Course title	Credits	500 level?	Term
	ME 400 Energy Conversion Systems	4	No	S
	ME 420 Intermediate Heat Transfer	4	No	F
	ME 598 Carbon Capture and Storage	4	Yes	S
	ME 501 Combustion Fundamentals	4	Yes	S
	Subtotal:	16		
Applied Math / Comp Science* 3-4 hours *From approved list.	ME 471 Finite Element Analysis	4	No	F
	Subtotal:	4		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	ENG 471 Seminar Energy & Sustain Engrg	1	No	S
	CEE 421 Construction Planning	4	No	F
	ARCH 401 Architecture of LeCorbusier	3	No	S
	Subtotal:	8		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	ENG 571 Theory of Energy & Sustainable Engineering	4	Yes	S
	Subtotal:	4		
Total Credits		32		

Check that all total coursework ≥ 32 credit hours.
Other Requirements and Conditions (may overlap with Core Requirements – please check to ensure that you will meet the conditions below):
 Only 400-500 level graduate level courses will be counted towards the M.Eng.ME degree requirements.
A minimum of 12 500-level credit hours must be applied toward the degree, 8 of which must be taken in ME or TAM.
 A maximum of 4 credit hours of independent study may be applied toward degree requirements.
 A course can be applied to more than one requirement simultaneously. The credit hours, however, will not be counted twice.
 Students must maintain a minimum GPA of 3.0 to remain in good academic standing.

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Chosen Track (optional): Hybrid

ME / TAM Coursework 12 hours minimum	Course title	Credits	500 level?	Term
	ME 446 Robot Dynamics and Control	4	No	S
	ME 543 Applied Control System Design & Analysis	4	Yes	F
	TAM 456 Experimental Stress Analysis	3	No	S
	ME 597 Independent Study	2	Yes	S
	ME 598 Advanced Robust Control	4	Yes	S
	Subtotal:	17		
Applied Math / Comp Science* 3-4 hours *From approved list.	ME 471 Finite Element Analysis	4	No	F
	Subtotal:	4		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	ABE 469 Industry-Linked Design Project	4	No	S
	CPSC 418 Crop Growth and Management	3	No	S
	SE 412 Nondestructive Evaluation	4	No	F
	Subtotal:	11		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	ENG 572 Professional Practicum	4	Yes	S
	Subtotal:	4		
Total Credits		36		

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ME / TAM Coursework 12 hours minimum	Course title	Credits	500 level?	Term
	ME 410 Intermediate Gas Dynamics	4	No	F
	ME 432 Fundamentals of Photovoltaics	4	No	F
	ME 598 Comp Model Indust Trans Proc	2	Yes	F
	ME 598 Comp Model Indust Trans Proc	2	Yes	S
	ME 510 Advanced Gas Dynamics	4	Yes	S
	Subtotal:	16		
Applied Math / Comp Science* 3-4 hours *From approved list.	ME 471 Finite Element Analysis	4	No	S
	Subtotal:	4		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	NPRE 402 Nuclear Power Engineering	4	No	F
	NPRE 475 Wind Power Systems	4	No	S
	Subtotal:	8		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	ENG 471 Seminar Energy & Sustain Engrg	1	No	S
	ENG 571 Theory Energy & Sustain Engrg	4	Yes	S
	Subtotal:	5		
Total Credits		33		

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	ME 451 Computer-Aided Mfg Systems	3	No	F
	ME 586 Mechanics of MEMS	4	Yes	F
	ME 598 Electronics Cooling	4	Yes	F
	TAM 412 Intermediate Dynamics	4	No	F
	ME 455 Micromfg Process & Automation	4	No	S
	Subtotal:	19		
Applied Math / Comp Science* 3-4 hours *From approved list.	TAM 470 Computational Mechanics	3	No	F
	Subtotal:	3		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	CS 418 Interactive Computer Graphics	4	No	F
	GEOG 403 Geographic Info Sci & Systems	4	No	S
	Subtotal:	8		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	TE 565 Technol Innovation & Strategy	2	Yes	F
	TE 566 Finance for Engineering Mgmt	2	Yes	S
	Subtotal:	4		
Total Credits		34		

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Chosen Track (optional): Controls & Robotics

ME / TAM Coursework 12 hours minimum	Course title	Credits	500 level?	Term
	ME 462 Advanced Computer Control	4	No	F
	ME 540 Control System Theory & Design	AU	Yes	F
	ME 543 Applied Control System Design	4	Yes	F
	ME 598 Advanced Robust Control	4	Yes	S
	ME 598 Carbon Capture and Storage	4	Yes	S
	Subtotal:	16		
Applied Math / Comp Science* 3-4 hours *From approved list.	ME 471 Finite Element Analysis	4	No	F
	Subtotal:	4		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	SE 420 Digital Control Systems	4	No	F
	SE 423 Mechatronics	3	No	S
	Subtotal:	7		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	TE 462 Leading Sustainable Change	3	No	S
	TE 466 High-Tech Venture Marketing	2	No	S
	Subtotal:	5		
Total Credits		32		

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Chosen Track (optional): Fluid & Thermal Sciences

ME / TAM Coursework 12 hours minimum	Course title	Credits	500 level?	Term
	ME 411 Viscous Flow & Heat Transfer	4	No	F
	ME 410 Intermediate Gas Dynamics	3	No	S
	ME 598 Comp Model Indust Trans Proc	2	Yes	F
	ME 598 Comp Model Indust Trans Proc	2	Yes	S
	ME 510 Advanced Gas Dynamics	4	Yes	S
	Subtotal:	15		
Applied Math / Comp Science* 3-4 hours *From approved list.	ME 471 Finite Element Analysis	4	No	Summer
	Subtotal:	4		
Elective Courses** 4 hours minimum **Chosen in consultation with faculty advisor.	AE 433 Aerospace Propulsion	4	No	F
	AE 498 Hypersonic Aero Thermodynamics	3	No	F
	TE 567 Venture Funded Startups	1	Yes	Summer
	TE 460 Lect in Engrg Entrepreneurship	1	No	F
	Subtotal:	9		
Professional Development*** 4 hours minimum ***Choice or combination of (a) a graduate-level capstone project (for example, ME 597 Independent Study, ENG 572 or ENG 573), or (b) a course in leadership, entrepreneurship, or other business-related course.	TE 565 Technol Innovation & Strategy	2	Yes	Summer
	TE 566 Finance for Engineering Mgmt	2	Yes	Summer
	Subtotal:	4		
Total Credits		32		

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