

## Bachelor of Engineering – Student entering 2019 Fall ☐ Study Plan ☐ Application for Candidacy (check one)

Stevens Institute of Technology Castle Point on Hudson Hoboken, NJ 07030 Office of the Registrar 201.216.5210 FAX 201.216.8030

Name_		D:		_ Class:	Box S	Email:			
Major C	oncentration Field: General Engineering with a co	ncentration i	in optical eng	gineering	Secondary Concer	tration Field:			
track yo standar	orint or type. The primary purpose of this form is t ur own progress to the degree. You should revise d curriculum time schedule. If a choice of course i be marked TR. An additional study plan will be rec	it as needed s given for th	. Please indic e requireme	cate the term w	hen you expect to to propriate course nu	ike each course (e.g., 20 mber. For electives, fill	015F, 2016S, etc.	). Roman numerals indicate th	ne
Term	Course  TERM I  CH 115 General Chemistry I  CH 117 General Chemistry Laboratory  E 101 Engineering Experience  E 115 Introduction to Programming  E 120 Engineering Graphics  E 121 Engineering Design I  MA 121 Differential Calculus  MA 122 Integral Calculus  CAL 103 Writing & Communication  Colloquium	2.0	Grade	Term		ng Design III d Systems	4.0 2.0 3.0 4.0 3.0	Grade	
	TERM II  Science Elective <sup>5</sup> E 122 Engineering Design II  MGT 103 Intro. to Entrepreneurial Thinking  MA 123 Series, Vectors, Functions, Surfaces  MA 124 Calculus of Two Variables  PEP 111 Mechanics  CAL 105 Knowledge, Nature, Culture	2.0 2.0 2.0 2.0 2.0 3.0 3.0			MA 227 Multiva PEP 209 Moderr PEP 201 Physics	ermal and Statistical Phriable Calculus  Optics III for Engineers	3.0 3.0 3.0		
Student Signature:					Date:				
Facult	y Advisor Signature:					Date:			



## Bachelor of Engineering – Student entering 2019 Fall ☐ Study Plan ☐ Application for Candidacy (check one)

Stevens Institute of Technology Castle Point on Hudson Hoboken, NJ 07030 Office of the Registrar 201.216.5210 FAX 201.216.8030

TERM VI  Et 471 Transport Phenomena in Solid State									
EE 471 Transport Phenomena in Solid State 4.0 PEP 423 Engineering Design VII 3.0 PEP 572 Laser Theory and Design Sign VII 3.0 PEP 5751 bear filter of the probability and Statistics for Eng. 3.0 PEP 5751 bear filter of the probability and Statistics for Eng. 3.0 PEP 510 Modern Optics Lab 3.0 PEP 322 Engineering Design VII 1.0 PEP 322 Engineering Design VII 1.0 PEP 322 Engineering Design VII 1.0 PEP 322 Engineering Economics 4.0 PEP 510 Photonics II 3.0 PEP 309 Intermediate Wave and Optics 3.0 Get 3 3.0 Get 3 3.0 PEP 309 Interductory Optics Lab 3.0 Get 3 3.0 Get 3 3.0 DE*402 Senior Innovation II 1.0 PE*402 Senior Innovation II 1.0 PE*403 Senior Innovation II 1.0 PEP 5405 Senior Innovation II 1.0 PEP 5400 Senior Innovation II 1.0 Senior Innovation	erm Course	Credits	Grade	Term	Course			Credits	Grade
E 321 Engineering Design V 2.0 PEP 577 Laser Theory and Design 3.0 PEP 515 Photonics I 3.0 PEP 308 Geometric Optics 3.0 Humanities 1 3.0 IDE 401 Senior Innovation II 1.0 PER 522 Engineering Design VI 2.0 PEP 516 Photonics II 3.0 PEP 509 Intermediate Wave and Optics 3.0 PEP 309 Introductory Optics Lab 3.0 PEP 516 Photonics II 1.0 PEP 400 Senior Innovation I 1.0 Additional Courses  Unamanities Requirement — Four additional humanities classes. At least one as to be at the 100 or 200 level, at least one must be at the 300 or 400 level, Incourses must cover at least two different disciplines within CAL. PEP 520 PEP 520 PEP 520 PEP 520 PEP 520 PEE 520 P		4.0			DED 422 En -in-			2.0	
E 243 Probability and Statistics for Eng.  E 344 Materials Processing 3.0  PEP 308 Geometric Optics 3.0  Humanities 3.0  DEF 308 Geometric Optics 3.0  Humanities 3.0  DIDE 401 Senior Innovation II  TERM VIII  PEP 322 Engineering Design VI 2.0  PEP 325 Engineering Design VIII 3.0  E 355 Engineering Economics 4.0  PEP 345 Modeling and Simulation 3.0  PEP 309 Intermediate Wave and Optics 3.0  PEP 509 Intermediate Wave and Optics 3.0  PEP 509 Intermediate Wave and Optics 3.0  PEP 309 Introductory Optics Lab 3.0  DEF 400 Senior Innovation II  1.0  Additional Courses  BESS  Lumanities Requirement — Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, locurses must cover at least two different disciplines within CAL.  PIPLICAL Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, PEP578, PEP579.  PER 200  PE Requirement — Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, locurses must cover at least two different disciplines within CAL.  PIPL 200  PE Required Courses  PE 200  PE PE 200	·				ū	0 0			
E 344 Materials Processing 3.0 PEP 510 Modern Optics Lab 3.0 PEP 308 Geometric Optics 3.0 IDE 4 401 Senior Innovation II 1.0 TERM VII PEP 322 Engineering Design VI 2.0 PEP 424 Engineering Design VIII 3.0 PEP 424 Engineering Economics 4.0 PEP 516 Photonics II 3.0 PEP 345 Modeling and Simulation 3.0 Technical Elective 3.0 PEP 345 Modeling and Optics 3.0 GE 3 3.0 PEP 309 Intermediate Wave and Optics 3.0 GE 3 3.0 PEP 309 Introductory Optics Lab 3.0 GE 3 3.0 DE 400 Senior Innovation I 1.0 Additional Courses Design VIII 1.0 DE 400 Senior Innovation I 1.0 Additional Lourses Design VIII 1.0									
PEP 308 Geometric Optics 3.0	•								
Humanities 1 3.0   IDE 4 401 Senior Innovation II 1.0    TERM VII  PEP 322 Engineering Design VI 2.0   PEP 424 Engineering Design VIII 3.0    PEP 5325 Engineering Economics 4.0   PEP 516 Photonics II 3.0    PEP 345 Modeling and Simulation 3.0   Technical Elective 2   3.0    PEP 509 Intermediate Wave and Optics 3.0   GE 3   3.0    PEP 309 Introductory Optics Lab 3.0   GE 3   3.0    PEP 309 Introductory Optics Lab 3.0   GE 3   3.0    DE 4 400 Senior Innovation I 1.0   Additional Courses    Simulation Requirement — Four additional humanities classes. At least one the at the 100 or 200 level, at least one must be at the 300 or 400 level, courses must cover at least two different disciplines within CAL obtained a minor, major concentration, research, independent study, language course, or a se taken during international experience.  E 400 can be taken concurrently with IDE 401 in Term VIII as determined by the sering program.  Lical Engineering students can take any of the following: BIO 281 Biology, CH Hemistry II, NANO 200 Intro to Nanotechnology, ENZSO Quantitative Biology course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Description of the Physical Education requirements.						•			
TERM VIII  PEP 322 Engineering Design VI 2.0  PEP 424 Engineering Design VIII 3.0  3.0  PEP 355 Engineering Economics 4.0  PEP 516 Photonics II 3.0  PEP 345 Modeling and Simulation 3.0  Technical Elective <sup>2</sup> 3.0  PEP 509 Intermediate Wave and Optics 3.0  GE <sup>2</sup> 3.0  PEP 309 Introductory Optics Lab 3.0  GE <sup>2</sup> 3.0  PEP 309 Introductory Optics Lab 3.0  GE <sup>2</sup> 3.0  PEP 309 Introductory Optics Lab 3.0  GE <sup>2</sup> 3.0  PEP 309 Introductory Optics Lab 3.0  GE <sup>2</sup> 3.0  PEP 309 Introductory Optics Lab 3.0  PEP 300 Introductory Optics Lab 3.0  PEP 300 Introduction Introduction I 1.0  PEP 300 Introduction In	•				_				
PEP 322 Engineering Design VI  E 355 Engineering Economics  4.0  PEP 345 Modeling and Simulation 3.0  PEP 509 Intermediate Wave and Optics 3.0  PEP 309 Introductory Optics Lab 3.0  GE³ 3.0  IDE⁴ 400 Senior Innovation I  1.0  Additional Courses  Signification Electives — chosen by the Student—can be any 3 or 4 credit course used ards a minor, major concentration, research, independent study, language courses, or a se taken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the mering program.  Dital Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology. ENZOS Quantitative Biology course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  PEP 200 PE Term Course Credits Grade Term Course Credits Grade Term Course Credits Grade PE 200 PE OP PE OP PE 200 PE	Humanities <sup>*</sup>	3.0			IDE <sup>4</sup> 401 Senio	r Innovation II		1.0	
E 355 Engineering Economics 4.0 PEP 516 Photonics II 3.0 PEP 345 Modeling and Simulation 3.0 Technical Elective <sup>2</sup> 3.0 PEP 509 Intermediate Wave and Optics 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Introductory Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 PEP 309 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup> 3.0 Intermediate Wave and Optics Lab 3.0 GE <sup>3</sup>									
PEP 345 Modeling and Simulation 3.0	PEP 322 Engineering Design VI	2.0			PEP 424 Engine	ering Design VIII		3.0	
PEP 509 Intermediate Wave and Optics 3.0	E 355 Engineering Economics	4.0			PEP 516 Photo	nics II		3.0	
PEP 309 Introductory Optics Lab  3.0  GE <sup>3</sup> 3.0  IDE <sup>4</sup> 400 Senior Innovation I  1.0  Additional Courses  wmanities Requirement — Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, at least two different disciplines within CAL. optical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade PE 200 PE PE 200 PE PE 200 PE PE 200 PE Set aken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology be course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Original Revision 2nd Degree	PEP 345 Modeling and Simulation	3.0			Technical Elect	ive²		3.0	
PEP 309 Introductory Optics Lab  3.0  GE <sup>3</sup> 3.0  IDE <sup>4</sup> 400 Senior Innovation I  1.0  Additional Courses  wmanities Requirement — Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, at least two different disciplines within CAL. optical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade PE 200 PE PE 200 PE PE 200 PE PE 200 PE Set aken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the incering program.  Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology be course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Original Revision 2nd Degree	PEP 509 Intermediate Wave and Optics	3.0			GE <sup>3</sup>			3.0	
Additional Courses  state at the 100 or 200 level, at least one must be at the 300 or 400 level, locurses must cover at least two different disciplines within CAL. ptical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade Term Course Credits Grade Term Course PE 200 PE Set along the student program. PE 200 PE PE 200 PE Set along the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Narotechnology, ENZ50 Quantitative Biology to course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Additional Courses  Set at the 100 or 200 level, at least one must be at the 300 or 400 level, at the 300 or 400 leve	PEP 309 Introductory Optics Lab	3.0			GE <sup>3</sup>			3.0	
umanities Requirement Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, I courses must cover at least two different disciplines within CAL. Potical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  eneral Education Electives - chosen by the student - can be any 3 or 4 credit course used ards a minor, major concentration, research, independent study, language courses, or a rese taken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the intering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course, PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.    Original   Revision   2 <sup>nd</sup> Degree	GE <sup>3</sup>	3.0			IDE <sup>4</sup> 402 Senio	Innovation III		1.0	
umanities Requirement Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, at least two different disciplines within CAL. Optical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade PE 200 PE 200 PE PE 200 PE	IDE <sup>4</sup> 400 Senior Innovation I	1.0		Addition	al Courses				
umanities Requirement Four additional humanities classes. At least one st be at the 100 or 200 level, at least one must be at the 300 or 400 level, locurses must cover at least two different disciplines within CAL. pitical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade PE 200 PE 200 PE PE 200 PE									
the at the 100 or 200 level, at least one must be at the 300 or 400 level, at least one must be at the 300 or 400 level, at least two different disciplines within CAL. ptical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, 578, PEP579.  PERequired Courses  Term Course Credits Grade Term Course Credits Grade PE 200 PE PE 200	<u>es:</u>								
decourses must cover at least two different disciplines within CAL.  Optical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570,  578, PEP579.  PE Required Courses  Term Course Credits Grade Term Course Credits Grade PE PE 200 PE	·				-				
Petical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, per 10578, PEP579.  PER Required Courses 7 Term Course Credits Grade Term Course Credits Grade PE 200 PE PE 20			rel,						
eneral Education Electives – chosen by the student – can be any 3 or 4 credit course used ards a minor, major concentration, research, independent study, language courses, or a rese taken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the ineering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  PE Required Courses  Term Course Credits Grade Term Course PE 200 PE PE 20			2, PEP553, PEP570,						
eneral Education Electives – chosen by the student – can be any 3 or 4 credit course used ards a minor, major concentration, research, independent study, language courses, or a rese taken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the ineering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.    PE 200	578, PEP579.					Cradita Crada	Torm	Course	Cradits Gr
ards a minor, major concentration, research, independent study, language courses, or a rese taken during international experience.  DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the ineering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  PE 200 PE PE 2	General Education Electives – chosen by the student – can be any 3 or 4 credit course used			rem			reiiii		
DE 400 can be taken concurrently with IDE 401 in Term VII as determined by the ineering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  6.PE Requirement- All students must complete a minimum of four semesters of Physical Education (P.E.) in non-repeating courses. No credit or grades are awarded for P.E. classes. Participation in varsity and club sports may be used to satisfy all four of the Physical Education requirements.  Original Revision 2 <sup>nd</sup> Degree	wards a minor, major concentration, research, independent study, language courses, or a								
neering program.  ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology to course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  (P.E.) in non-repeating courses. No credit or grades are awarded for P.E. classes. Participation in varsity and club sports may be used to satisfy all four of the Physical Education requirements.  Original Revision 2 <sup>nd</sup> Degree									
ptical Engineering students can take any of the following: BIO 281 Biology, CH Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.    Original   Revision   2 <sup>nd</sup>   Degree	•	l as determin	ed by the	6.PE Rec	uirement- All stud	ents must complete	a minimum of f	our semeste	ers of Physical Educati
Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Original Revision 2 <sup>nd</sup> Degree	0. 0	. DIO 201 Dial	omi CH			_			•
b course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP Intro to Astrophysics and Cosmology.  Original Revision 2 <sup>nd</sup> Degree	Chemistry II, NANO 200 Intro to Nanotechnology, EN250	Quantitative	Biology	varsity a	nd club sports may	be used to satisfy a	I four of the Ph	ysical Educa	tion requirements.
Original Revision 2 <sup>nd</sup> Degree	b course), PEP 151 Introduction to Astronomy, PEP 351 P	anetary Scier	ice, or PEP						
	intro to Astrophysics and Cosmology.				Original	Revision	2 <sup>nd</sup> De	gree	
	dent Signature:			<u> </u>	g			ate:	
	aculty Advisor Signature:						L	ate:	