

## Equivalent Course Guide

*Updated November 2019*

This list does not include core classes, nor does it include option equivalents that are typically taken freshman and/or sophomore year, as such classes should be taken *before* study abroad commences. Course equivalence is based on similarities in course content and what Caltech Study Abroad students have received credit for in the past – it is by no means guaranteed.

Note that this list does not define all equivalent classes. Just because it is not listed does not mean an equivalent does not exist. It is best, therefore, to also go to the catalog and course lists for each program to determine if an equivalent class is available.

Note that students studying abroad can take classes not taught at Caltech for option elective or general credit. In fact, students are encouraged to do so to explore new subjects in their option or in other fields.

Please keep in mind that courses, schedules and professors can change. It is possible that some of these classes are no longer being taught, have been renamed, revised, or are taught in a different term or semester. Simply because a class is listed here does not guarantee that you will receive the credit you are seeking. **You MUST still have your professors at Caltech review the current syllabus and course description of each class. The professor who teaches a comparable class at Caltech will decide whether or not you can receive credit equivalent to a required CIT course.** Note that you are not required to check equivalence with Caltech instructors/professors until you are selected for a particular program. However, it is advised that you do so in the case of a required class.

### ***Course catalog links for each study abroad program are below:***

Cambridge: <https://www.internationalstudents.cam.ac.uk>

Copenhagen: <http://studies.ku.dk/studies/>

- List of departments: <http://introduction.ku.dk/organisation/departments/> - useful for determining classes by department

Danish Technical University: <https://www.dtu.dk/english/Education/Course-base>

Edinburgh University: <http://www.drps.ed.ac.uk/>

Melbourne: <https://handbook.unimelb.edu.au/faces/htdocs/user/search/SimpleSearch.jsp>

University College London: <https://www.ucl.ac.uk/prospective-students/study-abroad-ucl/study-abroad-guide/subjects>

L'Ecole Poly <https://www.polytechnique.edu/en>

## EQUIVALENT COURSE GUIDE

### Aerospace Engineering

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Ae/APh/CE/ME 101a</b>								<a href="#">Turbulence Theory (41129)</a>
<b>Ae 105a</b>								<a href="#">Intro to Spacecraft Systems &amp; Design (30300)</a>

### Astrophysics (see Physics, also)

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Ay 20</b>				<a href="#">Astrophysics (PHYS10102)</a>				
<b>Ay 21</b>	Cosmology (Ma PT IIC)							
<b>Ay 101</b>			<a href="#">Stellar Astrophysics (PHY553)</a>				Stellar Atmospheres & Stellar Winds (PHYS4318)	
<b>Ge/Ay 117</b>				Astronomical Statistics & Measurement (PHYS10080)				

<b>Ay 190</b>				<a href="#">Computational Astrophysics L11 (PHYS11037)</a>				
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### BEM/Economics

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>BEM 103</b>					<a href="#">Introduction to Financial Engineering (42104)</a>			
<b>BEM 105</b>	<a href="#">Stochastic Financial Models (Ma IID)</a>	<a href="#">Stochastic Financial Models (Ma IID)</a> <sup>a</sup>					<a href="#">Financial Math (MATH3508)</a>	
<b>Ec 122</b>				<a href="#">Essentials of Economics (ECNM10052)</a>	<a href="#">Econometrics 2: Statistic Analysis of Econometric Time Series</a>			
<b>PS/Ec 172</b>								

### Bioengineering

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>BE/Bi 103</b>		Medical Physics (Engineering IIB)						

<b>Bi/BE 129</b>	Pathophysiology of Cancer (P7 PDN II)							
<b>BE 153</b>		Systems and Clinical Physiology (P8 PDN II)  Mathematical Physiology (3G2)						
<b>BE 159</b>						<a href="#">Cell Signaling &amp; Neurochemistry (BCMB30004)</a>		
<b>APh/BE 161</b>								
<b>ChE/BE 163</b>	Introduction to Molecular Bioengineering (3G1)							Metabolic Engineering & Functional Genomics (27405)
<b>Bi/BE 182</b>		Development: Cell Differentiation & Organogenesis						
<b>EE/BE/MedE 185</b>					<a href="#">Introduction to Micro-Mechanical Systems Design &amp;</a>			<a href="#">Micro-2: Micro-Electro-Mechanical Systems (33355)</a>

					<a href="#">Manufacture (41742)</a>		
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## Biology

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ec ole Poly	Edinburgh	Copenha gen	Melbou rne	UCL	DTU
<b>Bi 1</b>					<a href="#">Biomolecu lar Chemistry (26422)</a>			<a href="#">Biomolec ular Chemistr y (26422)</a>
<b>BE/Bi 103</b>		Medical Physics (Engineeri ng IIB)						
<b>Bi/Ch 110</b>				<a href="#">Biomacromol ecules (CHEM10051)</a>  <a href="#">Structures &amp; Functions of Proteins (BILG09015)</a>  <a href="#">Biophysical Chemistry (CHEM10014)</a>  <a href="#">Molecular Microbiology</a>			<a href="#">Biological Chemistry (CHEM3202)</a>  <a href="#">General Biochemistry (BIOC1008)</a>	

				<a href="#">3 L9</a> <a href="#">(BILG09013)</a>  Clinical Biochemistry &Endocrinolo gy 5 (UO1124)				
<b>Bi/Ch 113</b>	Cell Assembly & Interactions (P9 PDN Pt II)						Advanced Molecular Cell Biology (BIOC3050)  Molecular Cell Biology (BIOL3006/ANA T3050)	
<b>Bi 117</b>		Developm ent: Cell Differentia tion & Organoge nesis (P6 Nat Sci II, PDN)						
<b>Bi 118</b>		Pluripoten cy & Differentia tion						
<b>Bi 122</b>				<a href="#">Molecular Genetics 3 L9</a> <a href="#">(BILG09002)</a>	Theoretic al			

				<a href="#">Evolutionary &amp; Ecological Genetics 3 (BILG09004)</a>	<a href="#">Molecular Genetics</a>		
<b>Bi/BE 129</b>	Pathophysiology of Cancer (P7 PDN II)						
<b>Bi 145a</b>						Animal & Human Physiology-Maintenance & Regulatory Mechanisms (PHOL2002)	
<b>Bi/CNS/NB/Psy 150</b>	Molecular Neuroscience (N2, Nat Sci II) Sensory Transduction (N4, Nat Sci II) Control of Action (N3, Nat Sci II)	Introduction to Neuroscience (3G3)			Neurobiology (KU)	Advanced Neuroanatomy (ANAT3025) Advanced Functional Anatomy (NEUR3025)	
<b>Bi/CNS/EE 156a</b>				Introductory Applied Machine			

				Learning (INFR10069)				
<b>Bi 153</b>		Systems and Clinical Physiology						
<b>BMB/Bi/Ch 170</b>							Chemistry of Biologically Important Molecules (CHEM2601)	
<b>Bi/BE 182</b>		Developm ent: Cell Differentia tion & Organoge nesis						
<b>CNS/Bi/EE/C S/NB 186</b>	Computer Vision (4F12)							
<b>CNS/Bi/NB 256</b>		Central Mechanis ms of Reward, Punishme nt, and Emotion (N6 PDN II)						

## Chemical Engineering



Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>ChE 62</b>				<a href="#">Separation Processes II (U03925/CHEE08013)</a>				
<b>ChE 101</b>				<a href="#">Chemical Engineering Kinetics &amp; Catalysis 3 (CHEE09010)</a>				
<b>ChE 118</b>	Chemical Product Design			<a href="#">Chemical Engineering &amp; Economics 4 (CHEE10005)</a> <a href="#">Chemical Engineering Design 3A Level 10 (CHEE10010)</a>			Chemistry of Materials (CHEM2001)	
<b>Ch/ChE 147</b>	Introduction to Polymers (M0 Ch PT III)						Chemistry of Materials (CHEM2001)	
<b>Ch/ChE 148</b>								<a href="#">Polymer Technology (28213)</a>
<b>ESE/ChE 158</b>				<a href="#">Atmospheric Physics (METE10002)</a>				

<b>ChE/Ch 155</b>								<a href="#">Catalysis &amp; Kinetics (26510)</a>
<b>ChE/BE 163</b>	Introduction to Molecular Bioengineering (3G1)							<a href="#">Metabolic Engineering &amp; Functional Genomics (27405)</a>

## Chemistry

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Ch 21a</b>				<a href="#">Foundations of Quantum Mechanics (PHYS09051)</a>			Quantum Mechanics & Spectroscopy (CHEM2304)  Physical Chemistry (CHEM2301)	<a href="#">Advanced Physical Chemistry (26236)</a>  <a href="#">Quantum Chemistry (26261)</a>
<b>Ch 21b</b>				Chemistry 3A (VS1) Level 9 (CHEM09008)				
<b>Ch 25</b>				<a href="#">Biophysical Chemistry (CHEM11016)</a>				<a href="#">Biomolecular Chemistry (26422)</a>

<b>Ch 41a</b>				<a href="#">Synthetic Organic Chemistry (CHEM10024)</a>		Organic Chemistry (CHEM2201)  Fundamentals of Organic Chemistry (CHEM2202)  Chemistry for Biology Students (CHEM1062)	<a href="#">Practical Organic Chemistry (26407)</a>  <a href="#">Organic Chemistry 3 (26433)</a>
<b>Ch 80</b>					Chemistry Research Project (CHEM40008)		
<b>Bi/Ch 110</b>				<a href="#">Biomacromolecules (CHEM10051)</a>  <a href="#">Structures &amp; Functions of Proteins (BILG09015)</a>  <a href="#">Biophysical Chemistry (CHEM10014)</a>  <a href="#">Molecular Microbiology 3</a>		Biological Chemistry (CHEM3202)  General Biochemistry (BIOC1008)	

				<a href="#">L9 (BILG09013)</a>				
				Clinical Biochemistry & Endocrinology 5 (UO1124)				
<b>Bi/Ch 113</b>	Cell Assembly & Interactions (P9 PDN Pt II)						Advanced Molecular Cell Biology (BIOC3050)	
							Molecular Cell Biology (BIOL3006/ANAT 3050)	
<b>Ch 120a</b>		Energy Landscapes and Soft Materials (M4 Ch PT III)					Chemistry of Materials (CHEM2001)	
<b>Ch 121a</b>	Computer Simulation Methods in Chemistry & Physics (M6)							
<b>Ch 125a</b>					Mathematics & Introducto		Topics in Quantum	

					ry Quantum Mechanics		Mechanics (CHEM3302)	
<b>Ch 143</b>								<a href="#">NMR Spectroscopy (26438)</a>
<b>Ch 144a</b>	Organic Solids (M10 Ch PT III)							
<b>Ch 145</b>							Chemistry of Biologically Important Molecules (CHEM2601)	
<b>Ch/ChE 147</b>	Introduction to Polymers (M0 Ch PT III)						Chemistry of Materials (CHEM2001)	
<b>Ch/ChE 148</b>								<a href="#">Polymer Technology (28213)</a>
<b>Ch 154a</b>	Main Group Organometallics (M8 Ch PT III)							
<b>ChE/Ch 155</b>								<a href="#">Catalysis &amp; Kinetics</a>
<b>BMB/Bi/Ch 170</b>							Chemistry of Biologically Important	

							Molecules (CHEM2601)	
<b>ESE/Ge/ Ch 171</b>		Atmospheric Chemistry & Global Change						
<b>ESE/Ch 175</b>				<a href="#">Environmental Chemistry (CHEM10048)</a>				
<b>ESE/CH 176</b>				<a href="#">Environmental Chemistry (CHEM10048)</a>				
<b>Ch 242a</b>	Stereocontrolled Organic Synthesis (M5 Ch PT III)						Principles & Methods of Organic Synthesis (CHEM3205)	

### Computation and Neural Systems (CNS)

Caltech Course	Cambridge (M)	Cambridge (L)	L'École Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Bi/CNS/NB/Psy 150</b>	Molecular Neuroscience	Introduction to			Neurobiology (KU)		Advanced Neuroanatomy	

	<p>ce (N2, Nat Sci II)</p> <p>Sensory Transduction (N4, Nat Sci II)</p> <p>Control of Action (N3, Nat Sci II)</p>	Neuroscience (3G3)					<p>my (ANAT3025)</p> <p>Advanced Functional Anatomy (NEUR3025)</p>	
<b>CS/CNS/EE 156a</b>				<a href="#">Introductory Applied Machine Learning (INFR10069)</a>				
<b>CS/CNS 171</b>	Computer Graphics and Image Processing (CS PT II)						<a href="#">Computer Graphics (COMP0027)</a>	
<b>CNS/Bi/EE/CS/NB 186</b>	Computer Vision (4F12)							
<b>CNS/Bi/NB 256</b>		Central Mechanisms of Reward, Punishment, and						

		Emotion (N6 PDN II)						
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## Computer Science

Caltech Course	Cambridge (M)	Cambridge (L)	L'École Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>CS 1</b>				<a href="#">Programming &amp; Data Analysis (PHYS08049)</a>				
<b>CS 2</b>							Concurrent Programming (COMP2007)	
<b>CS 3</b>				<a href="#">Informatics 2C- Introduction to Software Engineering (INFR08019)</a>				
<b>CS011</b>				Introduction to Java Programming Level 9 (INFR09021)				



<b>CS 121</b>	Databases (CS IA)							
<b>Ma/CS 6/106a</b>	<a href="#">Graph Theory (Ma PT IID)</a> <a href="#">Number Theory (Ma PT IIC)</a>			<a href="#">Discrete Mathematics &amp; Mathematical Reasoning (INER08023)</a>	Discrete Mathematical Structures			
<b>Ma/CS 6c</b>	Automata and Formal Languages (Math IIC)							
<b>EE/CS/EST 135</b>					<a href="#">Electric Power Engineering (31730)</a>			
<b>CS/EE/IDS 143</b>						Networked Systems (COMP3035)	Computer Networks & the Internet (62472)	
<b>CS/EE/ME 134</b>				Introduction to Vision and Robotics Level 9				

				(INFR09019)				
<b>CS/CNS/EE 156a</b>				<a href="#">Introductory Applied Machine Learning (INFR10069)</a>				
<b>ACM/CS/IDS 157</b>		<a href="#">Statistical Modelling (Ma IIC)</a>						
<b>CS/CNS 171</b>	Computer Graphics and Image Processing (CS PT II)					Computer Graphics (COMP0027)		
<b>CNS/Bi/EE/CS/NB 186</b>	Computer Vision (4F12)							

## Electrical Engineering

Caltech Course	Cambridge (M)	Cambridge (L)	L'École Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>APh/EE 9</b>				<a href="#">Group Design Project (Design of Microsystems) (SCEE11004)</a>				

<b>ACM/EE 106a</b>	Numerical Analysis (Ma Pt IID)			<a href="#">Numerical Linear Algebra &amp; Applications (MATH11196)</a>				
<b>ACM/EE 106b</b>	Fluid Dynamics (Ma PT IB)							
<b>ME/EE/EST 109</b>				<a href="#">Sustainable Energy Technologies 4 (MECE10011)</a>				
<b>EE 111</b>	Signals & Systems (3F1)			Signals & Linear Systems in Discrete Time (31606)				
<b>EE 112</b>				Digital Signal Analysis 4 Level 10 (ELEE10010)				
<b>EE 160</b>	3F7 Information Theory and							

	Coding (Eng IIB)							
<b>ACM/EE/IDS 116</b>					<a href="#">Stochastic Processes (02407)</a>			
<b>EE/CS/EST 135</b>					<a href="#">Electric Power Engineering (31730)</a>			
<b>CS/EE/IDS 143</b>							Networked Systems (COMP303 5)	Compute r Networks & the Internet (62472)
<b>CS/CNS/EE 156a</b>				<a href="#">Introductory Applied Machine Learning (INFR10069 )</a>				
<b>EE/BE/MedE 185</b>					<a href="#">Introduction to Micro- Mechanical Systems Design &amp; Manufacture (41742)</a>			Micro-2: Micro- Electro- Mechanic al Systems (33355)
<b>CNS/Bi/EE/CS/ NB 186</b>	Computer Vision (4F12)							

## Environmental Science and Engineering

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>ESE/ChE 158</b>				<a href="#">Atmospheric Physics (METE10002)</a>				
<b>ESE/Ge/Ch 171</b>		Atmospheric Chemistry & Global Change						

## Geological and Planetary Science

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>GE 11a</b>							The Earth (GEOL1003)	
<b>GE 104</b>				<a href="#">Land-Atmosphere Interactions Level 10 (ECSC10014)</a>				
<b>GE 112</b>	Sedimentology & Paleontology Core (Nat Sci	Sedimentary Systems (Nat Sci II,		<a href="#">Paleontology &amp; Sedimentolog</a>	<a href="#">Sedimentary Basins-Modelling,</a>	<a href="#">Sedimentary Geology (GEOL30003)</a>		

	II, Geological Sciences)	Geological Sciences)		<a href="#">y L10 (EASC10106)</a> <a href="#">Dynamic Stratigraphy (EASC10097)</a>	<a href="#">Stratigraphy &amp; Resources</a>			
<b>GE 114a</b>	Mineralogy Core-Dynamics of Atoms in Minerals (Nat Sci II, Geological Sciences)							
<b>GE 114b</b>		Mineralogy of the Deep Earth (Nat Sci II, Geological Sciences)						
<b>GE 166</b>				Hydrogology 1: Applied Hydrogeology Level 10 (EASC 10082)				
<b>Ge/Ay 117</b>				Astronomical Statistics & Measurement (PHYS10080)				
<b>ESE/Ge/Ch 171</b>		Atmospheric Chemistry						

		& Global Change						
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## Material Science

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>MS 115</b>				<a href="#">Chemistry of Functional Materials (CHEM10041)</a>				
<b>MS 133</b>	Rheology & Processing (ChE IIB)							

## Math/ACM

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Ma 5/105a</b>	<a href="#">Groups (Math IA)</a>			Algebra (U01617)	<a href="#">Algebra 2</a> Modern Algebra			
<b>Ma 5/105b</b>		<a href="#">Group Rings &amp; Modules (Math IB)</a>						
<b>Ma/CS 6/106a</b>	<a href="#">Graph Theory (Ma PT IID)</a>			<a href="#">Discrete Mathematics &amp; Mathematical</a>	Discrete Mathematical Structures			

	<a href="#">Number Theory (Ma PT IIC)</a>			<a href="#">Reasoning (INER08023)</a>				
<b>Ma 108a</b>	<a href="#">Analysis II (Math IB)</a>			<a href="#">Honours Analysis L10 (MATH10068)</a>  <a href="#">Metric Spaces (U01630)</a>  <a href="#">Pure &amp; Applied Analysis (U01634)</a>				
<b>Ma 108b</b>		<a href="#">Analysis of Function (Ma IID)</a>						
<b>Ma 109a</b>		<a href="#">Geometry (Ma IIB)</a>		<a href="#">Topology (MATH10077)</a>	<a href="#">Topology</a>			
<b>Ma 109b</b>		<a href="#">Differential Geometry (Math II)</a>  <a href="#">Geometry (Math IB)</a>						
<b>Ma 112a</b>	<a href="#">Principles of Statistics (Ma PT IID)</a>	<a href="#">Statistics (Ma IID)</a>						<a href="#">Multivariate Statistics (02409)</a>



<b>Ma 144a</b>	Graph Theory (IID)							
<b>Ma/SS 142</b>		Stochastic Financial Models (Math IID)						
<b>ACM 95a</b>	Complex Analysis & Optimization (4M13, Engineering IIA)			Complex Variable & Differential Equations (U01611)				<a href="#">Multivariate Statistics (02409)</a>
<b>ACM 95b</b>		Complex Methods (Math IB)						
<b>ACM/IDS 101ab</b>				<a href="#">Advanced Methods of Applied Mathematics L10 (MATH10086)</a>  <a href="#">Differential Equations (Math 10066)</a>				
<b>ACM 105</b>		Analysis of Functions (Math IID)						

<b>ACM/EE 106a</b>	Numerical Analysis (Ma Pt IID)							
<b>ACM/EE 106b</b>	Fluid Dynamics (Ma PT IB)							
<b>ACM/CMS/IDS 113</b>	<a href="#">Optimization and Control (Ma PT IID)</a>			Non-Linear Optimization (U02703)				
<b>ACM/EE/IDS 116</b>					<a href="#">Stochastic Processes (02407)</a>			
<b>Ma 121a</b>	<a href="#">Graph Theory (Ma PT IID)</a>	<a href="#">Graph Theory (Ma IID)</a>		<a href="#">Database Systems L10 (INFR10070)</a>				
<b>ACM/CS/IDS 157</b>		<a href="#">Statistical Modelling (Ma IIC)</a>						
<b>ACM/IDS 216</b>		<a href="#">Statistical Modelling (Ma PT IIC)</a>						

## Mechanical Engineering

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>ME 72a</b>				<a href="#">Mechanical Design Project (MECE09018)</a>				

<b>Ae/APh/CE/ME 101a</b>								<a href="#">Turbulence Theory (41129)</a>
<b>ME/EE/EST 109</b>				<a href="#">Sustainable Energy Technologies 4 (MECE10011)</a>				
<b>Ae/ACM/Me 232a</b>			Computation Fluid Dynamics					

### Physics/ Applied Physics

Caltech Course	Cambridge (M)	Cambridge (L)	L'Ecole Poly	Edinburgh	Copenhagen	Melbourne	UCL	DTU
<b>Ph 5</b>				Electronic Methods in the Physical Laboratory (U01361)  Electronic Methods in the Physical Laboratory (PHYS09023)				
<b>APh/EE 9</b>				<a href="#">Group Design Project (Design</a>				

				<a href="#">Microsystems) (SCEE11004)</a>				
<b>Aph 17a</b>				Thermodynamics & Statistical Mechanics, Thermodynamics 3 (U03272)				<a href="#">Statistical Physics (10122)</a>
<b>Ae/Aph/CE/ME 101a</b>								<a href="#">Turbulence Theory (41129)</a>
<b>Ph 101</b>				<a href="#">Physics Skills (PHYS10042)</a>				
<b>Ph 106a</b>	TP1 Theoretical Physics I (Nat Sci II, Physics)  Classical Dynamics (Math II)			<a href="#">Langrangian Dynamics L10 (PHYS10015)</a>				
<b>Ph 106b</b>		Theoretical Physics (Nat Sci II, Physics)						
<b>Aph 114a</b>				<a href="#">Chemistry of Functional</a>				

				<a href="#">Materials (CHEM10041)</a> <a href="#">Condensed Matter Physics (PHYS10099)</a>			
<b>Ph 125a</b>	<p>Advanced Quantum Physics (Nat Sci II, Physics)</p> <p>Principles of Quantum Mechanics (Math IID)</p>			<a href="#">Foundations of Quantum Mechanics (PHYS09051)</a> <a href="#">Quantum Physics (PHYS10043)</a> <a href="#">Quantum Mechanics (PHYS09053)</a> <a href="#">Quantum Theory (PHYS11019)</a>		<p>Atom &amp; Photon Physics (PHYS4421)</p> <p>Advanced Quantum Mechanics (PHYS4226)</p>	<a href="#">Advanced Quantum Mechanics (10112)</a>
<b>Ph 127a</b>				<a href="#">Statistical Physics (PHYS11024)</a>			Statistical Physics (10400)
<b>Ph 129c</b>			Symmetry Groups in Physics				
<b>Ph 135</b>			<a href="#">Physics of Elementary</a>				

			<a href="#">Particles (PHY554)</a>  <a href="#">Quantum Optics- Lasers (PHY551 A)</a>					
<b>APh 156a</b>								<a href="#">Plasma Physics (10400)</a>
<b>APh/BE 161</b>								<a href="#">Intro to Biophysics (10347)</a>
<b>Ph/APh 223a</b>	<a href="#">Quantum Condensed Matter Field Theory (Nat Sci III, Physics)</a>							
<b>Ph 236a</b>	<a href="#">Relativity (Nat Sci II, Physics)</a>							