

UCEAP Summer Physics For Life Sciences 2019-20

Program	University of Sussex	University College Dublin	University of Glasgow	University of Nicosia
MyEAP Course titles/numbers	12 S PHYSICS 1 13 S PHYSICS 2	16 S PHYS FOR LIFE SCI 1 17 S PHYS FOR LIFE SCI 2	14 S PHYSICS 15 S PHYSICS 2	22 PHYSICS I 23 PHYSICS II
Calculus-based?	yes	yes	yes	yes
Prerequisites	UCEAP requires that applicants have taken two sequential courses of Single-Variable Calculus with a minimum grade of C. The titles for equivalent courses at UC campuses are: • UC Berkeley: Math 1AB, Math 10AB, or Math 16AB • UC Davis: Math 16B, 17B, or 21B • UC Irvine: Math 2AB or Math5AB • UC Los Angeles: Math 3AB, Math 31AB, or Life Sciences 30AB • UC Santa Barbara: Math 2AB or Math 3AB or Math 34AB • UC San Diego: Math 10AB • All other UC campuses: Titles for equivalent courses vary.			
GPA requirement	2.50	2.50	2.50	2.50
Skill test on UCEAP webpage?	yes	yes	yes	yes
Length of program	8 wks	8 wks	8 wks	8 wks
Number of units	12 UC qtr (8 sem)	12 UC qtr (8 sem)	12 UC qtr (8 sem)	12 UC qtr (8 sem)
Text	Customized text book based on Principles of Physics: A calculus based text, Intl edition by R A Serway & J W Jewett, and Physics for Scientists and Engineers with Modern Physics by R A Serway & J W Jewett	E-textbook: <i>Principles of Physics</i> by Jewett & Serway Other problems will be taken from, <i>Physics</i> by Halliday, Resnick & Walker	<i>Principles of Physics</i> by Walker, Halliday & Resnick, 10 th Edition, Wiley 2014. (Textbook and study material will be provided on arrival.)	Physics for Scientists and Engineers by R.A. Serway & J. W. Jewett (e-textbook provided on arrival, most assigned problems) Fundamentals of Physics by Halliday, Resnick & Walker University Physics by H.D. Young & R.A. Freedman
Teaching method/style	Traditional learning environment with lectures, labs, and workshops.	Traditional learning environment with lectures, labs, and workshops.	Student-centered learning design with a focus on small tutor-lead groups, also known as "flipped classroom" design.	Traditional learning environment with lectures, labs, and workshops.
Number of teaching sessions	26 (1.5 hours each) = 39 hours	64 (1 hour each) = 64 hours	16 (3 hours each) = 48 hours	8 hours (weekly) = 64 hours
Number of labs	12 (3 hours each) = 36 hours	16 (3 hours each) = 48 hours	13 (3 hours each) = 39 hours	6 hours (weekly) = 48 hours
Workshops	12 (2 hours each) = 24 hours	16 (2 hours each) = 32 hours	16 (3 hours each) = 48 hours	4 hours (weekly) = 32 hours
Weighing of final grade	10% Tests 25% Labs 15% Mid-term exam 50% Final exam	15% Problem Sets/Tutorials 25% Labs 10% Mid-session quiz 50% Final exam	20% Assignments & Tests 20% Labs 60% Final exam	15% Problem sets/Tutorials 10% Mid-Session Quiz 50% Final Examination 25% Laboratory
Are labs graded in groups?	no	no	no	no
Are tests graded in groups?	no	no (except tutorials)	no	no
Open notes for exams?	no	yes, except final exams	no	no
Formula sheet provided?	yes	yes	no	yes
Host grades are converted to UC grades	yes	yes	yes	yes
Graded on a curve?	no	no (except tutorials)	no	no
Expected time of independent Study	25 hours per week (200 hours)	20 hours per week (160 hours)	25 hours per week (200 hours) 23.125 hours per week for 185 total hours	80 hours min. per course (160 hours)
Notes	The custom textbook and calculator are provided. The calculator should be used for modules and exams.	A non-programmable & non-graphable scientific calculator is allowed in midterms and final exams.	Graphic capable calculators are not allowed in exams & tests. Bring a simple one such as a "Casio fx-85GT plus".	Students may use a standard scientific calculator but may not use a graphic or pre-programmable calculator.

Program	University of Sydney	Carlos III University of Madrid	Hong Kong University
MyEAP Course titles/numbers			11 S PHYSICS I 11 SL PHYSICS 1 LAB 12 S PHYSICS 11 12 SL PHYSICS II LAB
Calculus-based?	yes	yes	yes
Prerequisites	UCEAP requires that applicants have taken two sequential courses of Single-Variable Calculus with a minimum grade of C. The titles for equivalent courses at UC campuses are: • UC Berkeley: Math 1AB, Math 10AB, or Math 16AB • UC Davis: Math 16B, 17B, or 21B • UC Irvine: Math 2AB or Math5AB • UC Los Angeles: Math 3AB, Math 31AB, or Life Sciences 30AB • UC Santa Barbara: Math 2AB or Math 3AB or Math 34AB • UC San Diego: Math 10AB • All other UC campuses: Titles for equivalent courses vary.		
GPA requirement	2.50	2.50	2.50
Skill test on UCEAP webpage?	yes	Coming soon	No
Length of program	8 wks	8 wks	8 wks
Number of units	12 UC qtr (8 sem)	12 UC qtr (8 sem)	12 UC qtr (8 sem)
Text	University Physics with Modern Physics, 14th Edition, by Young and Freedman (Y&F), Published by Pearson	Title: "Physics for Scientists and Engineers", 6th Edition Authors: Paul A. Tipler & Gene Mosca ISBN-13: 978-0716789642	University Physics by H.D. Young & R.A. Freedman General Physics 1 Lab Manual by Penger Tong and David Mak
Teaching method/style	Student-centered peer learning sessions in tutorials and labs combined with interactive demonstration-based lectures accompanied by online just-in-time teaching support.	Traditional learning environment with lectures and labs.	Traditional learning environment with lectures and labs.
Number of teaching sessions	60 (1.5 hours each) = 90 hours	28 (1.5 hours each) = 42 hours	9 hours (weekly) = 72 hours or 48 (1.5 hours each)
Number of labs	16 (3 hours each) = 48 hours	12 (2 hours each) = 24 hours	5 hours (weekly) = 40 hours
Workshops	18 (2 hours each) = 36 hours	12 (1.5 hours each) = 18 hours	6 hours (weekly) = 48 hours
Weighing of final grade	60% final exam 20% mid semester exam 5% practice test 15% lab report	Grading: 30% Laboratory sessions 20% Attendance, attitude, activities in groups, homework 25% Midterm Exam 25% Final Exam	General Physics I & II: 10% Online assignment 40% Tests 50% Final exam General Physics I & II Laboratory: 30% Lab performance 70% Lab report
Are labs graded in groups?	no	no	no
Are tests graded in groups?	no	no	no
Open notes for exams?	no	no	no
Formula sheet provided?	yes		
Host grades are converted to UC grades	yes	yes	yes
Graded on a curve?	no	no	no
Expected time of independent Study	12.5 hours per week (100 hours)		12 hours (weekly) = 96 hours
Notes			