

Section V - College of Letters and Sciences

BIOLOGICAL SCIENCES

Biological Sciences

BIOLOGY 120 BIOLOGICAL FOUNDATIONS ... A terminal course designed to introduce basic principles of life, such as structure and function, reproduction, evolution, diversity, and adaptation, leading to a broader understanding of man and his biological environment. Not applicable to biology emphases or minors. Three lectures and two hours of laboratory per week.

COREQ: MATH 141 OR 140 OR WAIVER

#3313	Section 01	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	M	01:10 PM - 03:10 PM	UH0364	Brett C Woods		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0145	Kris Curran		
#3315	Section 02	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	M	03:20 PM - 05:20 PM	UH0364	Brett C Woods		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0145	Kris Curran		
#3317	Section 03	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	01:10 PM - 03:10 PM	UH0364	Elisabeth A Harrahy		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0145	Kris Curran		
#3383	Section 04	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	03:20 PM - 05:20 PM	UH0364	Elisabeth A Harrahy		
	09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Kris Curran		
#3385	Section 05	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	R	01:10 PM - 03:10 PM	UH0364	Elisabeth A Harrahy		
	09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Kris Curran		
#3387	Section 06	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	R	03:20 PM - 05:20 PM	UH0364	Elisabeth A Harrahy		
	09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Kris Curran		
#3389	Section 07	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	T	09:30 AM - 11:30 AM	UH0364	Michael J Woller		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0142	Eric M Brown		
#3393	Section 08	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	R	09:30 AM - 11:30 AM	UH0364	Peter W Mesner Jr		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0142	Eric M Brown		
#3395	Section 09	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	T	08:50 AM - 10:50 AM	UH0356	Stephen L Solheim		
	09/02-12/22	MW	02:15 PM - 03:30 PM	UH0145	Michael J Woller		
#3397	Section 10	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	T	11:00 AM - 01:00 PM	UH0356	Brett C Woods		
	09/02-12/22	MW	02:15 PM - 03:30 PM	UH0145	Michael J Woller		
#3445	Section 11	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	08:50 AM - 10:50 AM	UH0356	Michael J Woller		
	09/02-12/22	MW	02:15 PM - 03:30 PM	UH0145	Michael J Woller		
#3399	Section 12	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	T	01:10 PM - 03:10 PM	UH0356	Eric M Brown		
	09/02-12/22	MW	03:45 PM - 05:00 PM	UH0145	Michael J Woller		
#3401	Section 13	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	11:00 AM - 01:00 PM	UH0356	Stephen L Solheim		
	09/02-12/22	MW	03:45 PM - 05:00 PM	UH0145	Michael J Woller		
#3403	Section 14	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	R	11:00 AM - 01:00 PM	UH0356	Anneke Els Lisberg		
	09/02-12/22	MW	03:45 PM - 05:00 PM	UH0145	Michael J Woller		
#3407	Section 15	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	M	01:10 PM - 03:10 PM	UH0356	Stephen L Solheim		
	09/02-12/22	TR	03:45 PM - 05:00 PM	UH0140	Nadine L Kriska		
#3409	Section 16	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	M	03:20 PM - 05:20 PM	UH0356	Bruce David Eshelman		
	09/02-12/22	TR	03:45 PM - 05:00 PM	UH0140	Nadine L Kriska		
#3411	Section 17	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	01:10 PM - 03:10 PM	UH0356	Bruce David Eshelman		
	09/02-12/22	TR	03:45 PM - 05:00 PM	UH0140	Nadine L Kriska		
#5898	Section 18	[units: 4]	Gen Ed Laboratory (GL)				
	09/02-12/22	W	11:00 AM - 01:00 PM	UH0364	Ellen S Davis		
	09/02-12/22	MWF	09:55 AM - 10:45 AM	UH0145	Kris Curran		

Class# Section (Units) General Education Designation (if any)

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#5899 Section 19	[units: 4]	Gen Ed Laboratory (GL)			
09/02-12/22	R	01:10 PM - 03:10 PM	UH0356	Stephen L Solheim	
09/02-12/22	MW	02:15 PM - 03:30 PM	UH0145	Michael J Waller	
#6028 Section 20	[units: 4]	Gen Ed Laboratory (GL)			
09/02-12/22	W	09:00 AM - 11:00 AM	UH0364	Nadine L Kriska	
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0145	Kris Curran	

BIOLOGY 141 INTRODUCTORY BIOLOGY I ... An introduction to biology emphasizing the chemistry of life, the cell, metabolism, genetics, bacteria and protists. Three hours of lecture and one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.

COREQ: MATH 141 OR WAIVER

#3321 Section 01	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	R	08:00 AM - 11:00 AM	UH0312	Nadine L Kriska	
09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3319 Section 01C	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3323 Section 02	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	T	03:45 PM - 06:45 PM	UH0312	George V Clokey	
09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3327 Section 03	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	W	02:15 PM - 05:15 PM	UH0312	Nadine L Kriska	
09/02-12/22	MWF	01:10 PM - 02:00 PM	UH0140	George V Clokey	
#3329 Section 04	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	T	08:00 AM - 11:00 AM	UH0312	Nadine L Kriska	
09/02-12/22	MW	02:15 PM - 03:30 PM	UH0142	Robert K Kuzoff	
#3369 Section 05	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	R	02:15 PM - 05:15 PM	UH0312	Anneke Els Lisberg	
09/02-12/22	MW	02:15 PM - 03:30 PM	UH0142	Robert K Kuzoff	
#3423 Section 06X	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	F	08:50 AM - 11:50 AM	UH0312	George V Clokey	
09/02-12/22	TR	09:30 AM - 10:45 AM	UH0140	George V Clokey	
#3479 Section 07	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	T	12:00 PM - 03:00 PM	UH0312	Nadine L Kriska	
09/02-12/22	TR	09:30 AM - 10:45 AM	UH0140	George V Clokey	

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BIOLOGY 142 INTRODUCTORY BIOLOGY II ... An introduction to biology emphasizing evolution, animal physiology, ecology, fungal, plant and animal diversity. Dissections are required. Three hours of lecture, one hour of discussion and two hours of laboratory per week. This course is prerequisite to all advanced courses in biology for majors and minors. Offered every term.

PREREQ: BIOLOGY 141 WITH A GRADE OF C OR BETTER

#3333 Section 01	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	T	08:50 AM - 11:50 AM	UH0306	Kerry R Katovich	
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0140	Kerry R Katovich	
#3421 Section 03	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	M	02:15 PM - 05:15 PM	UH0306	George V Clokey	
09/02-12/22	TR	02:15 PM - 03:30 PM	UH0142	George V Clokey	
#3427 Section 04	[units: 5]	Gen Ed Laboratory (GL)			
09/02-12/22	W	01:10 PM - 04:10 PM	UH0306	Anneke Els Lisberg	
09/02-12/22	TR	02:15 PM - 03:30 PM	UH0142	George V Clokey	

CHEMISTRY

Chemistry

CHEM 100 CHEMISTRY FOR THE CONSUMER ... A critical examination of those chemical products which have a significant impact upon the daily life of the consumer. Attention will be focused from the consumer viewpoint upon food additives, prescription and non-prescription drugs, fuels, pesticides, detergents, synthetic fibers and plastics. Meets General Studies laboratory science requirements.

COREQ: MATH 141 OR 140 OR WAIVER

#3485 Section 01	[units: 4]	Gen Ed Laboratory (GL)			
09/02-12/22	W	09:00 AM - 10:40 AM	UH0244	Baocheng Han	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Steven W Anderson	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Hassimi Traore	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Christopher T Veldkamp	
#3487 Section 02	[units: 4]	Gen Ed Laboratory (GL)			
09/02-12/22	R	09:00 AM - 10:40 AM	UH0244	Paul G House	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Steven W Anderson	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Hassimi Traore	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Christopher T Veldkamp	

Class# Section (Units) General Education Designation (if any)

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#3489	Section 03	[units: 4]	Gen Ed Laboratory (GL)		
09/02-12/22	W	11:20 AM - 01:00 PM	UH0244	Catherine W Chan	
09/02-12/22	W	11:20 AM - 01:00 PM	UH0244	Baocheng Han	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Steven W Anderson	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Hassimi Traore	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Christopher T Veldkamp	
#3491	Section 04	[units: 4]	Gen Ed Laboratory (GL)		
09/02-12/22	R	02:15 PM - 03:55 PM	UH0244	Sarah Hosseini	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Steven W Anderson	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Hassimi Traore	
09/02-12/22	MWF	07:45 AM - 08:35 AM	UH0145	Christopher T Veldkamp	

CHEM 102 INTRODUCTORY CHEMISTRY ... An introduction to the general concepts of chemistry including matter and energy, atomic and molecular structure, bonding, reactions and stoichiometry, gas laws, changes of state, thermochemistry, acid-base theory, solutions, colloids, kinetics, equilibria and electrochemistry.

PREREQ: MATH 141 WITH A GRADE OF C OR BETTER OR WAIVER.

#3495	Section 01	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	08:00 AM - 10:45 AM	UH0242	Christopher T Veldkamp	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3497	Section 02	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	08:00 AM - 10:45 AM	UH0242	Christopher T Veldkamp	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3499	Section 03	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	M	08:00 AM - 10:45 AM	UH0242	Catherine W Chan	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3565	Section 04	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	W	08:50 AM - 11:35 AM	UH0242	Hassimi Traore	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3501	Section 04X	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	W	08:50 AM - 11:35 AM	UH0242	Hassimi Traore	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3503	Section 05	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	M	02:15 PM - 05:00 PM	UH0242	Margaret F Phillips	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3543	Section 06	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	02:15 PM - 05:00 PM	UH0242	Hassimi Traore	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3561	Section 07	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	W	02:15 PM - 05:00 PM	UH0242	Hephzibah J Kumpaty	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	
#3547	Section 08	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	02:15 PM - 05:00 PM	UH0242	Hassimi Traore	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0145	Margaret F Phillips	

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CHEM 104 INTRODUCTORY CHEMISTRY ... A continuation of CHEM 102.

PREREQ: CHEM 102

#3507	Section 01	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	08:00 AM - 10:45 AM	UH0244	Margaret F Phillips	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0140	Paul G House	
#3509	Section 02	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	M	08:00 AM - 10:45 AM	UH0244	Paul G House	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0140	Paul G House	
#3511	Section 03	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	M	02:15 PM - 05:00 PM	UH0244	Steven W Anderson	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0140	Paul G House	
#3551	Section 04	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	02:15 PM - 05:00 PM	UH0244	Sarah Hosseini	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0140	Paul G House	
#3563	Section 05	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	W	02:15 PM - 05:00 PM	UH0244	Catherine W Chan	
09/02-12/22	MTWR	12:05 PM - 12:55 PM	UH0140	Paul G House	

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

GEOGRAPHY AND GEOLOGY**Geography**

GEOGRPY 210 PHYSICAL GEOGRAPHY ... A study of selected physical aspects of our geographic environment. Emphasis is given to the origin and characteristic features of topographic, climatic, vegetative and soil regions of the earth and to their interrelationships. The ultimate objective is to provide a foundation upon which to build a better understanding of human interrelationships with the physical environment. Field trips are normally taken.

COREQ: MATH 141 OR WAIVER

#3569	Section 01	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	M	09:00 AM - 10:40 AM	UH0150	Nicole L Dudei
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter
#3631	Section 02	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	W	09:00 AM - 10:40 AM	UH0150	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter
#3625	Section 03	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	T	09:00 AM - 10:40 AM	UH0150	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter
#3627	Section 04	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	R	09:00 AM - 10:40 AM	UH0150	Dale K Splinter
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter
#3665	Section 05	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	M	02:15 PM - 03:55 PM	UH0150	Nicole L Dudei
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter
#3667	Section 06	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	T	02:15 PM - 03:55 PM	UH0150	Dale K Splinter
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Peter M Jacobs
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0145	Dale K Splinter

Geology

GEOLOGY 100 PRINCIPLES OF GEOLOGY ... An introduction to the concepts which describe the origin and evolution of the earth. Emphasis is on understanding (1) the material make-up of the earth, (2) the internal and external processes which affect the earth, (3) the scientific method as it applies to the study of the earth. One field trip is required. A special fee will be assessed to those students electing to participate on an optional field trip to cover the cost of chartering a bus. Four hours of lectures and two hours of lab each week.

COREQ: MATH 141 OR 140 OR WAIVER

#3699	Section 01	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	M	11:00 AM - 12:30 PM	UH0060	Juk Bhattacharyya
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0143	Juk Bhattacharyya
#3707	Section 02	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	T	11:00 AM - 12:30 PM	UH0060	Juk Bhattacharyya
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0143	Juk Bhattacharyya
#3713	Section 03	[units: 5]	Gen Ed Laboratory (GL)	NOTE: Required additional course fee is \$25.
09/02-12/22	W	11:00 AM - 12:30 PM	UH0060	Juk Bhattacharyya
09/02-12/22	MTWR	01:10 PM - 02:00 PM	UH0143	Juk Bhattacharyya

PHYSICS**Astronomy**

ASTRONOMY 112 INTRODUCTION TO ASTRONOMY ... An examination of concepts regarding the organization of the universe. The solar system, astronomical principles and instruments, stellar evolution and galaxies are among topics covered. Activities include field trips, observations of the night sky and of the sun with telescopes, and laboratory work. Four one-hour lectures and one two-hour laboratory/observation period per week. There are two required evening observation sessions during the semester.

COREQ: MATH 141 OR WAIVER

#4101	Section 02	[units: 5]	Gen Ed Laboratory (GL)	
09/02-12/22	T	09:30 AM - 11:30 AM	UH0050	Juliana T Constantinescu
09/02-12/22	MTWR	03:45 PM - 04:35 PM	UH0141	Juliana T Constantinescu
#4107	Section 03	[units: 5]	Gen Ed Laboratory (GL)	
09/02-12/22	M	12:05 PM - 02:05 PM	UH0050	Paul M Rybski
09/02-12/22	MTWR	09:55 AM - 10:45 AM	UH0141	Paul M Rybski

<i>Start/End Dates</i>	<i>Meeting Days</i>	<i>Meeting Times</i>	<i>Location</i>	<i>Instructor</i>	<i>Course Topic (if applicable)</i>
#5891	Section 04	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	12:30 PM - 02:30 PM	UH0050	Juliana T Constantinescu	
09/02-12/22	MTWR	09:55 AM - 10:45 AM	UH0141	Paul M Rybski	

Physics

PHYSICS 120 LIGHT AND COLOR ... An introduction to light science for students in the visual arts and for students with an interest in art. The course includes the properties of light and color, the interaction of light with matter, the formation of visual images, and color vision. Three one-hour lectures and one two-hour laboratory per week.

COREQ: MATH 141 OR 140 OR WAIVER

#5900	Section 01	[units: 4]	Gen Ed Laboratory (GL)		
09/02-12/22	W	02:15 PM - 04:15 PM	UH0050	Abdelkrim Boukahil	
09/02-12/22	TR	11:00 AM - 12:15 PM	UH0141	Abdelkrim Boukahil	

PHYSICS 130 PHYSICS FOUNDATIONS ... This course will explore topics in classical physics (motion, heat, sound, electricity, magnetism, and light) and modern physics (atomic structure, quantum mechanics, and relativity) with an emphasis on how the principles explain and predict phenomena we observe every day. Four one-hour lectures and one two-hour laboratory per week.

COREQ: MATH 141 OR CONSENT OF INSTRUCTOR

#4067	Section 01	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	09:30 AM - 11:30 AM	UH0058	Juliana T Constantinescu	
09/02-12/22	MF	08:50 AM - 09:40 AM	UH0141	Robert Benjamin	
09/02-12/22	TR	08:25 AM - 09:15 AM	UH0141	Robert Benjamin	
#4069	Section 02	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	12:30 PM - 02:30 PM	UH0058	Juliana T Constantinescu	
09/02-12/22	MF	08:50 AM - 09:40 AM	UH0141	Robert Benjamin	
09/02-12/22	TR	08:25 AM - 09:15 AM	UH0141	Robert Benjamin	

PHYSICS 140 PRINCIPLES OF PHYSICS I ... An algebra-based course in classical mechanics at the introductory level. The content covers kinematics, Newton's laws, conservation laws, oscillations and waves, applications to fluids and elasticity, and thermodynamics and kinetic theory. Applications to the life and health sciences are emphasized, and essential MCAT subject matter is included. Basic understanding of trigonometry and the manipulation of vectors is necessary. Students with adequate mathematical preparation may wish to consider taking the PHYSICS 180 series. Four one-hour lectures and one three-hour laboratory per week.

COREQ: MATH 152

#4063	Section 01	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	02:15 PM - 05:15 PM	UH0050	Jalal M Nawash	
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0141	Jalal M Nawash	
#4071	Section 02	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	R	09:30 AM - 12:30 PM	UH0050	Jalal M Nawash	
09/02-12/22	MWF	11:00 AM - 11:50 AM	UH0141	Jalal M Nawash	

PHYSICS 180 PHYSICS FOR SCIENTISTS AND ENGINEERS I ... A lecture course in introductory physics including a mathematically rigorous analysis of mechanics, vibrations, wave motion, and thermodynamics using calculus. For majors and minors in physics, engineering, chemistry, mathematics. Four one-hour lectures and one three-hour lab per week. High school calculus recommended.

COREQ: MATH 253

#4051	Section 01	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	09:50 AM - 12:50 PM	UH0058	Robert Benjamin	
09/02-12/22	MTRF	01:10 PM - 02:00 PM	UH0141	Robert Benjamin	
#4055	Section 02	[units: 5]	Gen Ed Laboratory (GL)		
09/02-12/22	T	02:15 PM - 05:15 PM	UH0058	Robert Benjamin	
09/02-12/22	MTRF	01:10 PM - 02:00 PM	UH0141	Robert Benjamin	

PHYSICS 212 PHYSICS FOR ELEMENTARY TEACHERS ... This course is a one-semester introduction to physics with curriculum and instruction designed as an activity-based hands-on course for K-8 elementary education students and open to all education majors. The course emphasizes a student-oriented pedagogy in order to develop various physics concepts and the nature of science. Topics covered include motion, forces, energy, light, heat, electricity, and magnetism.

PREREQ: MATH 141 AND RESTRICTED TO STUDENTS WITH BSE PROGRAM

#4091	Section 01	[units: 4]	Gen Ed Laboratory (GL)		
09/02-12/22	MW	12:05 PM - 02:25 PM	UH0166	Steven C Sahyun	
#4093	Section 02	[units: 4]	Gen Ed Laboratory (GL)		
09/02-12/22	MW	08:25 AM - 10:45 AM	UH0166	Steven C Sahyun	