

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

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|-------|-------------|------------|------------------------|--------|---------------------|--|--|
| #2652 | Section 01 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | M | 01:10 PM - 03:10 PM | UH0364 | George V Clokey | | |
| | 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0142 | Donald B Barrette | | |
| #2654 | Section 02 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 08:50 AM - 10:50 AM | UH0364 | George V Clokey | | |
| | 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0142 | Donald B Barrette | | |
| #2656 | Section 03 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | M | 01:10 PM - 03:10 PM | UH0356 | Ellen S Davis | | |
| | 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0145 | Nadine L Kriska | | |
| #2660 | Section 04 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | M | 03:30 PM - 05:30 PM | UH0356 | Donald B Barrette | | |
| | 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0145 | Nadine L Kriska | | |
| #2658 | Section 05 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 08:50 AM - 10:50 AM | UH0356 | Donald B Barrette | | |
| | 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0145 | Nadine L Kriska | | |
| #2662 | Section 06 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 11:00 AM - 01:00 PM | UH0356 | Donald B Barrette | | |
| | 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0145 | Nadine L Kriska | | |
| #2722 | Section 07 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 01:10 PM - 03:10 PM | UH0356 | Nadine L Kriska | | |
| | 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0145 | Nadine L Kriska | | |
| #2724 | Section 08 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 03:45 PM - 05:45 PM | UH0356 | Donald B Barrette | | |
| | 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0145 | Nadine L Kriska | | |
| #2726 | Section 09 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | R | 12:05 PM - 02:05 PM | UH0356 | George V Clokey | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0140 | Kris Curran | | |
| #2728 | Section 10 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 11:00 AM - 01:00 PM | UH0356 | Kris Curran | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0140 | Kris Curran | | |
| #2730 | Section 11 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | R | 09:55 AM - 11:55 AM | UH0356 | Elisabeth A Harrahy | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0140 | Kris Curran | | |
| #2732 | Section 12 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | R | 11:00 AM - 01:00 PM | UH0364 | Stephen L Solheim | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0145 | Donald B Barrette | | |
| #2734 | Section 13 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | M | 03:45 PM - 05:45 PM | UH0364 | Stephen L Solheim | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0145 | Donald B Barrette | | |
| #2736 | Section 14 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 08:50 AM - 10:50 AM | UH0364 | George V Clokey | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0145 | Donald B Barrette | | |
| #2738 | Section 15 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 11:00 AM - 12:55 PM | UH0364 | Donald B Barrette | | |
| | 01/20-05/20 | TR | 02:15 PM - 03:30 PM | UH0140 | Brett C Woods | | |
| #2740 | Section 16 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 03:45 PM - 05:45 PM | UH0364 | Elisabeth A Harrahy | | |
| | 01/20-05/20 | TR | 02:15 PM - 03:30 PM | UH0140 | Brett C Woods | | |
| #2742 | Section 17 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | R | 08:50 AM - 10:50 AM | UH0364 | Stephen L Solheim | | |
| | 01/20-05/20 | TR | 02:15 PM - 03:30 PM | UH0140 | Brett C Woods | | |
| #5382 | Section 18 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 01:10 PM - 03:10 PM | UH0364 | Kerry R Katovich | | |
| | 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0140 | Kris Curran | | |
| #5383 | Section 19 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | T | 01:10 PM - 03:10 PM | UH0356 | Donald B Barrette | | |
| | 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0145 | Nadine L Kriska | | |

Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)

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

| | | | | |
|-------------|------------|---------------------|------------------------|---|
| #2666 | Section 01 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | T | 08:50 AM - 11:50 AM | UH0312 | Nadine L Kriska |
| 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0140 | Robert K Kuzoff |
| #2668 | Section 02 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | T | 01:10 PM - 04:10 PM | UH0312 | Nadine L Kriska |
| 01/20-05/20 | MWF | 09:55 AM - 10:45 AM | UH0140 | Robert K Kuzoff |
| #2746 | Section 03 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | W | 01:10 PM - 04:10 PM | UH0312 | George V Clokey |
| 01/20-05/20 | TR | 02:15 PM - 03:30 PM | UH0142 | George V Clokey |
| #5381 | Section 05 | [units: 5] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | M | 01:10 PM - 04:10 PM | UH0312 | Nadine L Kriska |
| 01/20-05/20 | TR | 02:15 PM - 03:30 PM | UH0142 | George V Clokey |

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

| | | | | |
|-------------|------------|---------------------|------------------------|---|
| #2672 | Section 01 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | T | 08:50 AM - 11:50 AM | UH0306 | Kerry R Katovich |
| 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0140 | Kerry R Katovich |
| #2692 | Section 02 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | T | 01:10 PM - 04:10 PM | UH0306 | Anneke Els Lisberg |
| 01/20-05/20 | MWF | 11:00 AM - 11:50 AM | UH0140 | Kerry R Katovich |
| #2750 | Section 03 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required additional course fee is \$15.00 |
| 01/20-05/20 | R | 08:50 AM - 11:50 AM | UH0306 | Anneke Els Lisberg |
| 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0142 | Anneke Els Lisberg |
| #5370 | Section 05 | [units: 5] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | M | 03:30 PM - 06:30 PM | UH0306 | George V Clokey |
| 01/20-05/20 | MW | 02:15 PM - 03:30 PM | UH0142 | Anneke Els Lisberg |

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

| | | | | |
|-------------|------------|---------------------|------------------------|---------------------|
| #2864 | Section 01 | [units: 4] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | T | 08:20 AM - 10:00 AM | UH0244 | John W Ejnik |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Steven W Anderson |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Hassimi Traore |
| #2818 | Section 02 | [units: 4] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | T | 10:10 AM - 11:50 AM | UH0244 | Steven W Anderson |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Steven W Anderson |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Hassimi Traore |
| #2820 | Section 03 | [units: 4] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | M | 11:00 AM - 12:40 PM | UH0244 | Sarah Hosseini |
| 01/20-05/20 | M | 11:00 AM - 12:40 PM | UH0244 | Hassimi Traore |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Steven W Anderson |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Hassimi Traore |
| #2822 | Section 04 | [units: 4] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | M | 02:15 PM - 03:55 PM | UH0244 | Margaret F Phillips |
| 01/20-05/20 | M | 02:15 PM - 03:55 PM | UH0244 | John W Ejnik |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Steven W Anderson |
| 01/20-05/20 | MWF | 07:45 AM - 08:35 AM | UH0140 | Hassimi Traore |

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.

| | | | | |
|-------------|------------|---------------------|------------------------|---------------------|
| #2824 | Section 01 | [units: 5] | Gen Ed Laboratory (GL) | |
| 01/20-05/20 | T | 08:00 AM - 10:45 AM | UH0242 | Hassimi Traore |
| 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips |

| Class# | Section | (Units) | General Education Designation (if any) | | Start/End Dates | Meeting Days | Meeting Times | Location | Instructor | Course Topic (if applicable) |
|--------|------------|------------|--|--|-----------------|--------------|---------------------|----------|---------------------|------------------------------|
| #2828 | Section 02 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | W | 08:00 AM - 10:45 AM | UH0242 | Margaret F Phillips | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips | |
| #2830 | Section 03 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | M | 02:15 PM - 05:00 PM | UH0242 | Hassimi Traore | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips | |
| #2832 | Section 04 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | T | 02:15 PM - 05:00 PM | UH0242 | Margaret F Phillips | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips | |
| #2868 | Section 05 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | W | 02:15 PM - 05:00 PM | UH0242 | Hassimi Traore | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips | |
| #2890 | Section 06 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | R | 02:15 PM - 05:00 PM | UH0242 | Sarah Hosseini | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0145 | Margaret F Phillips | |

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

PREREQ: CHEM 102

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|-------|-------------|------------|------------------------|--|-------------|------|---------------------|--------|---------------------|--------------------------------------|
| #2834 | Section 01 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | W | 08:00 AM - 10:45 AM | UH0244 | John W Ejnik | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |
| #2892 | Section 01X | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | W | 08:00 AM - 10:45 AM | UH0244 | John W Ejnik | NOTE: LEARNING COMMUNITY: ARCHIMEDES |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |
| #2838 | Section 02 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | R | 08:00 AM - 10:45 AM | UH0244 | Margaret F Phillips | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |
| #2840 | Section 03 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | W | 02:15 PM - 05:00 PM | UH0244 | John W Ejnik | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |
| #2870 | Section 04 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | R | 02:15 PM - 05:00 PM | UH0244 | Margaret F Phillips | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |
| #5371 | Section 05 | [units: 5] | Gen Ed Laboratory (GL) | | 01/20-05/20 | T | 04:30 PM - 07:15 PM | UH0244 | Marsha L Goodell | |
| | | | | | 01/20-05/20 | MTWR | 12:05 PM - 12:55 PM | UH0140 | John W Ejnik | |

Dept. Consent

GEOGRAPHY AND GEOLOGY

Geography

GEOGRPY 120 INTRODUCTION TO WEATHER AND CLIMATE ... This course introduces students to the processes controlling and distinguishing weather and climate. Particular emphasis is on data selection, interpretation, and analysis. The impacts of severe weather and climate change on humans is also emphasized. The labs expose students to the wide range of weather and climate information currently available on the Internet.

COREQ: MATH 141 OR WAIVER

#4879 Section 01 [units: 4] Gen Ed Laboratory (GL) NOTE: This is an entirely web based section taught out of D2L. Contact the instructor for additional information. Additional required course fee is \$200.

| | | | | |
|-------------|----------|----------|-----------|----------------|
| 01/20-05/20 | Arranged | Arranged | WEB BASED | David J Travis |
| 01/20-05/20 | Arranged | Arranged | WEB BASED | Steve Curran |

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

| | | | | | | | | | | |
|-------|------------|------------|------------------------|--|--|------|---------------------|--------|------------------|--|
| #2954 | Section 01 | [units: 5] | Gen Ed Laboratory (GL) | | NOTE: Required additional course fee is \$25.00. | | | | | |
| | | | | | 01/20-05/20 | M | 09:00 AM - 10:40 AM | UH0150 | Peter M Jacobs | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Peter M Jacobs | |
| #2956 | Section 02 | [units: 5] | Gen Ed Laboratory (GL) | | NOTE: Required additional course fee is \$25.00. | | | | | |
| | | | | | 01/20-05/20 | T | 09:00 AM - 10:40 AM | UH0150 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Peter M Jacobs | |
| #2960 | Section 03 | [units: 5] | Gen Ed Laboratory (GL) | | NOTE: Required additional course fee is \$25.00. | | | | | |
| | | | | | 01/20-05/20 | W | 09:00 AM - 10:40 AM | UH0150 | Peter M Jacobs | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Peter M Jacobs | |
| #3018 | Section 04 | [units: 5] | Gen Ed Laboratory (GL) | | NOTE: Required additional course fee is \$25.00. | | | | | |
| | | | | | 01/20-05/20 | R | 09:00 AM - 10:40 AM | UH0150 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Sonya J Larocque | |
| | | | | | 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Peter M Jacobs | |

| Start/End Dates | Meeting Days | Meeting Times | Location | Instructor | Course Topic (if applicable) |
|------------------|--------------|------------------------|----------------|-----------------------------------|------------------------------|
| #2984 Section 05 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required | additional course fee is \$25.00. | |
| 01/20-05/20 | T | 12:30 PM - 02:10 PM | UH0150 | Dale K Splinter | |
| 01/20-05/20 | MTWR | 08:50 AM - 09:40 AM | UH0063 | Dale K Splinter | |
| #4934 Section 06 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required | additional course fee is \$25.00. | |
| 01/20-05/20 | R | 12:30 PM - 02:10 PM | UH0150 | Dale K Splinter | |
| 01/20-05/20 | MTWR | 08:50 AM - 09:40 AM | UH0063 | Dale K Splinter | |
| #5350 Section 07 | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | T | 06:15 PM - 08:45 PM | UH0150 | Steve Curran | |
| 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Sonya J Larocque | |
| 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0145 | Peter M Jacobs | |

Geology

GEOLGY 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

| | | | | | |
|------------------|------------|------------------------|----------------|-----------------------------------|--|
| #3020 Section 01 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required | additional course fee is \$25.00. | |
| 01/20-05/20 | M | 11:00 AM - 12:30 PM | UH0060 | Juk Bhattacharyya | |
| 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0143 | Juk Bhattacharyya | |
| #3024 Section 02 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required | additional course fee is \$25.00. | |
| 01/20-05/20 | T | 11:00 AM - 12:30 PM | UH0060 | Juk Bhattacharyya | |
| 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0143 | Juk Bhattacharyya | |
| #3026 Section 03 | [units: 5] | Gen Ed Laboratory (GL) | NOTE: Required | additional course fee is \$25.00. | |
| 01/20-05/20 | R | 11:00 AM - 12:30 PM | UH0060 | Juk Bhattacharyya | |
| 01/20-05/20 | MTWR | 01:10 PM - 02:00 PM | UH0143 | Juk Bhattacharyya | |

PHYSICS

Astronomy

ASTRONY 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

| | | | | | |
|-------------------|------------|------------------------|--------|--------------------------|--|
| #3350 Section 01L | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | T | 03:45 PM - 05:45 PM | UH0050 | Paul M Rybski | |
| 01/20-05/20 | MTWR | 02:15 PM - 03:05 PM | UH0141 | Paul M Rybski | |
| #3354 Section 02L | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | M | 11:00 AM - 01:00 PM | UH0050 | Juliana T Constantinescu | |
| 01/20-05/20 | MTWR | 03:45 PM - 04:35 PM | UH0141 | Juliana T Constantinescu | |
| #3356 Section 03L | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | M | 01:10 PM - 03:10 PM | UH0050 | Juliana T Constantinescu | |
| 01/20-05/20 | MTWR | 03:45 PM - 04:35 PM | UH0141 | Juliana T Constantinescu | |

Physics

PHYSCS 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

| | | | | | |
|-------------------|------------|------------------------|--------|-------------|--|
| #3304 Section 01L | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | T | 09:30 AM - 11:30 AM | UH0058 | Saeed Ahmad | |
| 01/20-05/20 | MWRF | 08:50 AM - 09:40 AM | UH0141 | Saeed Ahmad | |
| #4808 Section 02L | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | T | 01:10 PM - 03:10 PM | UH0058 | Saeed Ahmad | |
| 01/20-05/20 | MWRF | 08:50 AM - 09:40 AM | UH0141 | Saeed Ahmad | |

PHYSICS 141 PRINCIPLES OF PHYSICS II ... An algebra-based course in electricity and magnetism, circuits, electromagnetic waves, optics and an introduction to modern physics. 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.

PREREQ: PHYSICS 140

| | | | | | |
|------------------|------------|------------------------|--------|--------------------|--|
| #4811 Section 01 | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | W | 02:15 PM - 05:15 PM | UH0050 | Abdelkrim Boukahil | |
| 01/20-05/20 | TR | 11:00 AM - 12:15 PM | UH0141 | Abdelkrim Boukahil | |
| #3340 Section 02 | [units: 5] | Gen Ed Laboratory (GL) | | | |
| 01/20-05/20 | R | 02:15 PM - 05:15 PM | UH0050 | Abdelkrim Boukahil | |
| 01/20-05/20 | TR | 11:00 AM - 12:15 PM | UH0141 | Abdelkrim Boukahil | |

| Start/End Dates | Meeting Days | Meeting Times | Location | Instructor | Course Topic (if applicable) |
|-----------------|--------------|---------------|----------|------------|------------------------------|
|-----------------|--------------|---------------|----------|------------|------------------------------|

PHYSICS 181 PHYSICS FOR SCIENTISTS AND ENGINEERS II ... A course in introductory physics including a mathematically rigorous analysis of electricity and magnetism, light and optics, and modern physics using calculus. For majors and minors in physics, engineering, chemistry, and mathematics. Four one-hour lectures and one three-hour lab per week.

PREREQ: PHYSICS 180 OR CONSENT OF INSTRUCTOR COREQ: MATH 254

| | | | | | | | |
|-------|-------------|------------|------------------------|--------|-----------------|--|--|
| #3328 | Section 01L | [units: 5] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | W | 02:15 PM - 05:15 PM | UH0058 | Robert Benjamin | | |
| | 01/20-05/20 | MTWF | 01:10 PM - 02:00 PM | UH0141 | Robert Benjamin | | |
| #3346 | Section 02L | [units: 5] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | R | 02:15 PM - 05:15 PM | UH0058 | Saeed Ahmad | | |
| | 01/20-05/20 | MTWF | 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

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|-------|-------------|------------|------------------------|--------|-----------------|--|--|
| #3314 | Section 01 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | MW | 08:25 AM - 10:45 AM | UH0166 | Steven C Sahyun | | |
| #4786 | Section 2 | [units: 4] | Gen Ed Laboratory (GL) | | | | |
| | 01/20-05/20 | MW | 12:05 PM - 02:25 PM | UH0166 | Steven C Sahyun | | |