

# SCIENCE

*6 classes required for diploma*

**SC Earth Science** - 9<sup>th</sup> grade requirement  
(2)170141 & 170142 Earth & Space Science

**SC Life Science** - 10<sup>th</sup> grade requirement  
(2)171141 & 171142 Biology  
(2)171153 & 171154 Pre AP Biology

# SCIENCE

## **SC Physical Science** 11-12<sup>th</sup> grade requirement

(1)173120 Conceptual Chemistry (earth, biology, algebra)

(1)173121 Conceptual Physics (earth, biology, algebra)

(2)172111 & 172112 Chemistry (biology + algebra)

(3)172111 & 172112 Chemistry &173121conceptual physics

(2)173111 &173112 Physics (geometry)

(3)173111 & 173112 Physics & 173120 (conceptual chemistry)

(3)171351 & 171352 & 171353 AP Physics I (algebra II)

(3) 000043 & 000044 & 00045 AP Physics II (algebra II +  
physics or AP physics I)

*For Iowa Core, you must have both a Physics Class and a Chemistry Class,  
but they don't need to be taken in the same year.*

# SCIENCE

## Science Electives not IA core

(1) 171411 **Invertebrate Zoology** (biology) - detailed study and lab of animals without backbones

(1) 171442 **Vertebrate Zoology** (invert zoology ) - detailed study and lab of animals with backbones and without backbones

(2) 171311 & 171312 **Anatomy & Physiology** (biology, rec) – body systems, support, movement, regulation, development

(1) 174221 **Forensics** (chemistry or Conceptual Chemistry) – materials - evidence, analysis hair, fibers, drugs, blood...

(1) 171431 **Genetics** (biology + chemistry) - inheritance traits, genetic screening, therapy, environmental influences

(1) 170151 **Astronomy & Geology** (earth science) –solar system, stars, galaxies, interstellar bodies, geology

(1) 170152 **Meteorology & Oceanography** (earth ) – atmosphere, pressures, air masses, conditions, ecology

(3) 171511 & 171512 & 171513 **AP Biology** (bio + chemistry) - in-depth studies, labs, research, biotechnology, molecular genetics

(4) 172331 **Adv. Chemistry** (alg2 + chemistry) & 172511 & 172523 & 172513 **AP Chemistry** (adv chemistry) – labs, critical analysis, medicine, engineering, agriculture, consumer sciences, equilibrium, electro and nuclear chemistry

(3) 171351 & 171352 & 171353 **AP Physics I** (alg 2 + physics) – classical/ modern physics, mechanics, work, energy, power, mechanical waves/sound, circuits

(3) 000043 & 000044 & 000045 **AP Physics II** (alg II + Physics or AP Physics I) – fluid statics/dynamics, electromagnetism, optics, quantum, atomic, nuclear physics

## SCIENCE IA CORE

## Science Electives not IA core

- (1) 171411 **Invertebrate Zoology** (biology)
- (1) 171442 **Vertebrate Zoology**  
(invert zoology )
- (2) 171311 & 171312 **Anatomy & Physiology**  
(biology, rec)
- (1) 174221 **Forensics** (chemistry or  
conceptual chemistry)
- (1) 171431 **Genetics** (biology + chemistry)
- (1) 170151 **Astronomy & Geology**  
(earth science)
- (1) 170152 **Meteorology & Oceanography**  
(earth science )
- (3) 171511 & 171512 & 171513 **AP Biology**  
(biology + chemistry)
- (4) 172331 **Adv. Chemistry** (1 term)  
(algebra 2 + chemistry) &  
172511 & 172523 & 172513  
**AP Chemistry** (adv chemistry)
- (3) 171351 & 171352 & 171353 **AP Physics I**  
(alg 2 + physics)
- (3) 000043 & 000044 & 000045 **AP Physics II**  
(alg II + Physics or AP Physics I)