



## **STEM Course Syllabus**

**COURSE:** *SCI-101-01*

**COURSE TITLE:** Introduction to Physical Science

**Credits:** 3

**INSTRUCTOR:**

**TERM:**

**DAY(S) AND TIME(S):**

**LOCATION:**

**OFFICE HOURS:**

**OFF. LOCATION:**

**EMAIL:**

**TELEPHONE:**

**COURSE DESCRIPTION:** Introduction to Physical Science is designed for students who have not had high school physics and for those who wish to review it. It covers concepts of physics like motion, electricity, heat, and work, in context to other disciplines. The associated laboratory experiments supplement and illustrate the principles discussed in class. It has been developed to engage students in solving real world issues using the knowledge they acquire.

**COURSE PREREQUISITE:** Non

### **STUDENT LEARNING OUTCOMES**

Upon successfully completing this course, students will be able to

- Demonstrate understanding of how to use the scientific method to explore the principles of physical science
- Correctly apply the metric system in lab settings and daily activities, including unit conversions
- Correctly apply terms used in physical science, physical science theories and laws in practical problems
- Communicate finding using accurate scientific terminology in written and/or oral form in order to solve problems and interpret found results

## **TEXTBOOK & SUPPLEMENTAL MATERIALS**

**Textbook:** An Introduction to Physical Science, 14th edition

**Author:** James T. Shipman

**Supplemental Materials:**

- **The online quiz is obligatory, and due by the next class meeting.**

### **Book Purchase:**

Since we use these books extensively in and out of the class, you **must buy** them before our second meeting. In case you need to wait for the book voucher, it is your responsibility to find a way to make copies of the readings assigned from the books. Any student who has true financial need is eligible to apply for a book scholarship through the Office of the Dean of Students located at 70 Sip Avenue.

## **ATTENDANCE**

*Attendance is mandatory. For your reference, the college policy is generally that a student may fail a course due to lack of attendance if s/he missed more than 6 hours of instructional time for a 3-credit course.*

## **GRADING POLICY**

### **BREAKDOWN OF GRADING:**

Attendance: -----	10%
Midterm #1:-----	15%
Midterm #2: -----	15%
Midterm #3: -----	15%
Quiz-----	20%
Final Exam-----	25%
<b>Total</b>	<b>100%</b>

The grade scale for this class will be as follows:

92 – 100	= A
87-91.9	= A-
82-86.9	= B+
77-81.9	= B
70-76.9	= B-
65-69.9	= C+
60-64.9	= C
40-59.9	= D
Below 40	= F

## **CELL PHONE USE POLICY**

*Cell phones are not allowed during exams.*

## **MANDATORY USE OF HCCC EMAIL ADDRESS**

Members of the HCCC community are required to check their official HCCC email address in order to stay current with College and course communications. All college business communication between faculty, students, and staff must be sent via an official HCCC email address. If an employee or student elects to forward or link his/her HCCC email to a separate and private account, that individual remains responsible for all material transmitted to that account. Employees of HCCC shall not be responsible for any material that remains undelivered, due to defects in the private non-HCCC accounts. Failure in the operations of private email accounts shall not be cause for excuse from communications between the student and the employee. Students that encounter difficulty with HCCC email should view the FAQ's section on the Portal.

### **INCOMPLETE**

An INCOMPLETE grade for the course is given under specific conditions when a student, because of serious and unexpected reasons, cannot complete the requirements of the course. For example, if a student did not attend the final because of illness his or her excuse must be verified by a physician. Other absences from other assigned activities must be made up at another appointed time. To arrange for an incomplete grade, the student must see the instructor before final exam, so proper documentations could established and submitted to Division and The office of Academic Affairs.

### **DISABILITY SUPPORT SERVICES:**

Students with disabilities who believe that they might need accommodations in this class are encouraged to contact Disability Support Services at (201) 360-4157, as soon as possible to better ensure that such accommodations are implemented in a timely fashion. All disabilities must be documented by a qualified professional such as a Physician, Licensed Learning Disabilities Teacher Consultant (LDTC), Psychiatrist, Psychologist, Psychiatric Nurse, Licensed Social Worker or Licensed Professional Counselor, who is qualified to assess the disability that the student claims to have and make recommendations on accommodations for the student. All information provided to the Disability Support Services Program will be confidential between the program, professors involved with the student and individual student.

### **ACADEMIC INTEGRITY**

#### **Academic Integrity Standards**

Academic integrity is central to the pursuit of education. For students at HCCC, this means maintaining the highest ethical standards in completing their academic work. In doing so, students *earn* college credits by their honest efforts. When they are awarded a certificate or degree, they have attained a goal representing genuine achievement and can reflect with pride on their accomplishment. This is what gives college education its essential value.

#### **Violations of the principle of academic integrity include:**

- Cheating on exams.
- Reporting false research data or experimental results.
- Allowing other students to copy one's work to submit to instructors.
- Communicating the contents of an exam to other students who will be taking the same test.

- Submitting the same project in more than one course, without discussing this first with instructors.
- Submitting *plagiarized* work. *Plagiarism* is the use of another writer's words or ideas without properly crediting that person. This unacknowledged use may be from published books or articles, the Internet, or another student's work.

### Violations of Academic Integrity

When students act dishonestly in meeting their course requirements, they lower the value of education for all students. Students who violate the college's policy on academic integrity are subject to failing grades on exams or projects, or for the entire course. In some cases, serious or repeated instances of academic integrity violations may warrant further disciplinary action.

Detailed information on the College's Academic Integrity policy may be found in the *HCCC Student Handbook*. The handbook also contains useful information for students on completing research projects and avoiding plagiarism.

### TENTATIVE COURSE SCHEDULE

Week	Topic
1	Introduction
2	Scientific Method and Measurement <b>Lab 1: Measurement</b>
3	Motion <b>Lab 2: Working with Vectors</b>
4	Motion (continue) <b>Lab 3: Free Fall</b>
5	Review and Exam 1 (10/04/19)
6	Force and Motion <b>Lab 4: Acceleration</b>
7	Work and Energy <b>Lab 5: Work and Energy problem</b>
8	Review and Exam 2 (10/25/19)
9	Work and Energy (continue) <b>Lab 6: Potential and Kinetic Energy</b>
10	Temperature and Heat <b>Lab 7: Boiling Point and Freezing Point</b>
11	Review and Exam 3 (11/15/19)
12	Waves <b>Lab 8: Wave and Sound</b>
13	Electricity and Magnetism <b>Lab 9: Ohm's Law</b>
14	Electricity and Magnetism (continue) <b>Lab 10: Magnets</b>
15	Final test (12/20/19)
Note	11/29/19 thanksgiving holiday, no class,

Hudson County Community College has many supportive services available to help meet your goals. Below are resources available to you:

<p><b>SECURITY:</b> Main Campus: 201-360-4080 North Hudson Campus: 201-360-4777</p>	<p><b>NATIONAL SUICIDE PREVENTION LIFELINE:</b> 1-800-273-8255 <b>CRISIS TEXT LINE:</b> Text “HELLO” to 741-741</p>	
<p><b>IN AN EMERGENCY, PLEASE CONTACT SECURITY OR 911.</b></p>		
Department	Journal Square Campus	North Hudson Campus
<p><b>Counseling Services</b> <a href="mailto:counseling@hccc.edu">counseling@hccc.edu</a></p>	<p>201-360-4150 A Building, 2<sup>nd</sup> Floor <a href="https://my.hccc.edu/advisement">https://my.hccc.edu/advisement</a></p>	<p>201-360-4627 1<sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/advisement">https://my.hccc.edu/advisement</a></p>
<p><b>Advising Services</b> <a href="mailto:advising@live.hccc.edu">advising@live.hccc.edu</a></p>		
<p><b>Accessibility Services</b> <a href="mailto:as@hccc.edu">as@hccc.edu</a></p>	<p>201-360-4163 A Building, 2<sup>nd</sup> Floor <a href="https://my.hccc.edu/as">https://my.hccc.edu/as</a></p>	<p>201-360-4163 1<sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/as">https://my.hccc.edu/as</a></p>
<p><b>Career Services</b> <a href="mailto:career@hccc.edu">career@hccc.edu</a></p>	<p>201-360-4184 A Building, 3<sup>rd</sup> Floor <a href="https://my.hccc.edu/career-services">https://my.hccc.edu/career-services</a></p>	<p>201-360-4138 2<sup>nd</sup> Floor, Room 204 <a href="https://my.hccc.edu/career-services">https://my.hccc.edu/career-services</a></p>
<p><b>Food Pantry</b> <a href="mailto:foodpantry@hccc.edu">foodpantry@hccc.edu</a></p>	<p>201-360-4701 J Building, Lower Level Room 002 <a href="http://my.hccc.edu/hudson-helps">my.hccc.edu/hudson-helps</a></p>	<p>201-360-4709 5<sup>th</sup> Floor, Room 513A <a href="http://my.hccc.edu/hudson-helps">my.hccc.edu/hudson-helps</a></p>
<p><b>Financial Aid</b> <a href="mailto:financial_aid@hccc.edu">financial_aid@hccc.edu</a></p>	<p>201-360-4200 A Building, 2<sup>nd</sup> Floor <a href="https://my.hccc.edu/fa">https://my.hccc.edu/fa</a></p>	<p>201-360-4214 1<sup>st</sup> Floor, Enrollment Center <a href="https://my.hccc.edu/fa">https://my.hccc.edu/fa</a></p>
<p><b>Information Technology Services</b> <a href="mailto:itshelp@hccc.edu">itshelp@hccc.edu</a></p>	<p>201-360-4310 A Building, Lower Level <a href="https://my.hccc.edu/its">https://my.hccc.edu/its</a></p>	<p>201-360-4309 3<sup>rd</sup> Floor, Room 309 <a href="https://my.hccc.edu/its">https://my.hccc.edu/its</a></p>
<p><b>Library</b> Journal Square <a href="mailto:librarian@hccc.edu">librarian@hccc.edu</a>  North Hudson <a href="mailto:librarynhc@hccc.edu">librarynhc@hccc.edu</a></p>	<p>201-360-4360 L Building, 1<sup>st</sup> Floor <a href="http://www.hcccclibrary.net/">http://www.hcccclibrary.net/</a></p>	<p>201-360-4623 3<sup>rd</sup> Floor <a href="http://www.hcccclibrary.net/">http://www.hcccclibrary.net/</a></p>
<p><b>Tutoring Center</b> <a href="mailto:tc@hccc.edu">tc@hccc.edu</a></p>	<p>201-360-4187 L Building, Lower Level <a href="https://my.hccc.edu/tutoring">https://my.hccc.edu/tutoring</a></p>	<p>201-360-4779 7<sup>th</sup> Floor, Room 704 <a href="https://my.hccc.edu/tutoring/">https://my.hccc.edu/tutoring/</a></p>
<p><b>Writing Center</b> <a href="mailto:wc@hccc.edu">wc@hccc.edu</a></p>	<p>201-360-4370 J Building, Room 204 <a href="https://my.hccc.edu/tutoring">https://my.hccc.edu/tutoring</a></p>	<p>201-360-4779 7<sup>th</sup> Floor, Room 704 <a href="https://my.hccc.edu/tutoring/">https://my.hccc.edu/tutoring/</a></p>