Bridgeport Regional Aquaculture Science and Technology Education Center

(BRASTEC)

During and After School

College Science Program

through the

UCONN E.C.E. Program

(and Univ. Bridgeport)

The UCONN E.C.E Program

- The Aquaculture School offers a during and **a college science program**
- Students enrolled in the program earn high school and ***college credit*** in their courses
- Courses are offered through the UCONN Early College Experience Program
- Some Advantages
  - Student becomes enrolled as a “UCONN student”
  - Access to library and other facilities
  - Access to ALL on-line data bases and journals

UCONN Early College Experience Program

- **60th year as an educational outreach program**
- UConn ECE is a concurrent enrollment program that works with high schools to offer UCONN courses to high school students. ***(over 12,000)***
- The program continues to help over 12,000 students per year, in over195 high schools in Connecticut, to reach higher, gain confidence in their ability to succeed, and ***make students more competitive for college.***

First question to ask yourself

Are you College Eligible?

Are you College ***Ready?***

When students gradate high school, they are eligible for college, but the vast majority are **NOT COLLEGE READY**

The Courses offered at The Aquaculture School

- Chemistry 1127 (4 credits)
- Chemistry 1128 (4 credits)
- Biology 1107 (4 credits)
- Biology 1108 (4 credits)
- Oceanography (3 or 4 credits)
- Environmental Science (3 credits)

Chemistry (after school)

- A full year course, 2 semesters
  - Chem 1127 Fall
  - Chem 1128 Spring
- Lab once a week

At UCONN, anyone pursuing a bachelors degree in science, any science, is *required* to take 1 full year of chemistry

- A ***required*** course for the following majors in college;
  - **Nursing**
  - **Biology**
  - **Chemistry**
  - **Pre-med/Pre-vet**
  - **Science Education**
  - **Lab Technicians**
  - **ALL medical fields**
  - **Any major in Science**

Biology

- 2 separate courses, 2 semesters
- Courses can be taken independently of each other
  - Bio 1107 Fall
  - Bio 1107 Spring
- Lab once a week

- A ***required*** course for the following majors in college;
  - **Nursing**
  - **Biology**
  - **Biotechnology**
  - **Pre-med/Pre-vet**
  - **Science Education**
  - **Lab Technicians**
  - **ALL medical fields**
  - **Any major in Science**

Oceanography and Environmental Science

- **Oceanography**
- 1 semester
- Enhance science background
- Great for students planning on studying
  - Marine science
  - Earth science
  - Marine biology
  - Science Education
  - Science elective credits

- **Environmental Science**
- 1 semester
- Enhance science background
- Great for students planning on studying
  - Marine science
  - Earth science
  - Environmental science/law
  - Science Education
  - Science elective credits

- **Strong push by colleges to *require* this course for *ALL* students**

The Instructors

Chemistry
Mr. Jan Pikul

- B.S. Chemistry (’93)
- M.S. Biochemistry (’98)
- 6th yr Sci. Ed (’02)
- Adjunct Professor
  - SCSU (since 1993)
  - UCONN (since 2006)

Marine & Env. Science (BACA) Mr. Kirk Shadle

- B.S. Aquaculture (’94)
- M.S. Science Ed. (’02)
- 6th yr Sci. Ed (’08)
- Adjunct Professor
  UCONN (since 2006)

Marine Science → Ms. Gladych

- B.S. Biology (’95)
- M.S. Oceanography. (’15)
- Adjunct Professor → UCONN (since 2016)

The Instructors

Biology 1107 & 1108
Mrs. Amy Mcleod

- B.S. Ecology and Evolutionary Biology (’97)
- M.S. Education (’99)
- 6th yr Sci. Ed (’02)

- Adjunct Professor
  - UCONN (since 2010)

Biology 1108
Ms. Holly Turner

- B.S. Marine Science (’98)
- M.S. Biology(’02)
- 6th yr Sci. Ed (’10)

- Adjunct Professor
  UCONN (since 2010)

Aquaculture Course offerings ‘19-’20

- Fall 2019
- Biology 1107 (pm)
- Oceanography (both)
- Chemistry 1127 (after school)

- Spring 2020
- Biology 1107 (am)
- Env. Science (pm)
- Chemistry 1128 (after school)

BACA

Fall ‘17 → Environmental Science

Spring ‘17 → Oceanography

Bonus Option….. University of Bridgeport College Physics in Fall

See Ms. Mathew for details (after school)

Also Gauging interest in Bio 1108 (during or after school????)

General Scheduling

- **Chemistry 1127 (pm)**
  - Fall, Tuesday and Wednesday 2:45-5:45 pm
- **Chemistry 1128 (pm)**
  - Spring, Tuesday and Wednesday 2:45-5:45 pm
- Biology 1107
  - In pm (fall), am (spring)
- **Biology 1108**
  - Possiblly offered 2018-2019 (if interested in future, please talk to Mr. Pikul/Ms. Turner)
- **Oceanography**
  - **Am and Pm (fall) (4 credit)**
- **Environmental Science**
  - **Pm only (spring) (3 credit)**

Same courses offered in BACA program

Why E.C.E Program and not A.P.

ECE

- Actual College Course
- College Credits on a college transcript
- Credits transferable
- Grade based on a **whole body of work**
- Taught by college professors
- Other college student benefits:

  i.e → Access to UCONN's library and data bases

AP

- *Simulated* College Course
- Credit Accepted at fewer colleges every year
- College credit based on one exam
- Taught by high school teachers

More Advantages of ECE

- Student becomes enrolled as a “UCONN student”
- Access to library and other facilities
- Access to ALL on-line data bases and journals

- Completed courses will allow a student to either;
  - **Take more advanced courses earlier in college career**
  - **Carry a lighter course load (focus on fewer classes)**
  - **Graduate early (saving $$$)**
  - **Make college application more competitive (proven record of success at the college level**)

Advantages of Completed College Credit in H.S.

- Student has shown they can perform at the college level, therefore assist in;
  - Acceptance
  - Scholarships
  - Financial Aid
  - Saving money (credits completed at greatly reduced cost)
  - Higher Priority
    - Choosing classes
    - Housing

FAQ

- **What Universities will accept the credits?**
  - UCONN is an internationally recognized university. Almost all colleges will accept transfer credit. (87%)

- **What if I take the course and do poorly?**
  - You are graded on a college scale (grading criteria). If you are doing poorly, there is a late withdrawal option, however you are still responsible for the course fees.

FAQ

- **How do these classes effect my high school rank/GPA?**
  - Since the course/s you are taking are college courses they are weighted the same as an AP course when your high school rank is determined

- **How is the high school grade for the course determined compared to the college grade?**
  - The grades for the college credit are strictly controlled by the college standards. Generally, depending on the course, the high school grades are curved. For example a grade of C- in Chem 127 ***may*** be curved to a B- for the high school grade.

FAQ

- **Who is responsible for transportat and from The Aquaculture School?**
  - The student is responsible for all transpor On many days (labs and/or exam days) th will end earlier than normal (6pm) and stu will be dismissed when they are finished.
- **What will the program cost?**
  - $50 **per credit** (compare to ~$967 per cr UCONN and ~$574 per credit at SCSU)
    - 4 Credit course ($200 each semester)
    - 3 Credit course($150 each class)

Bridgeport Students take the course for FREE

Also any student on free and reduced lunch program

Per credit costs ('16)

Housatonic C.C.

~$175

St Vincent's College

~$540

Sacred Heart

~$1300

Univ. Bridgeport

~$590

FAQ

- **If I want to take the Chem 1128 in the spring, do I have to take Chem 1127 in the fall?**
  - **Yes,** chemistry at ALL universities is a multi-semester (most 2 semesters, some 3 semester courses). You must take and pass the first semester in order to take the second semester.
- **Can I take Chem 1127 in the fall and not take Chem 1128 in the spring?**
  - **Sure.** Then when you get to college, you only need to take the second semester course.
- **What if I want to take both Chemistry classes, but I don't earn college credit in Chem 1127?**
  - You can take the second semester, but you can ***only*** earn high school credit for it

FAQ

- Do I need to take high school chemistry *before* UCONN chemistry or Biology?
  - Yes! The other 2 courses do not have prerequisites.

- Is the Environmental Science and Oceanography courses the same as the ones in the BACA program?
  - Yes! Do not enroll in these two courses if you are planning on enrolling in the BACA program. (but enrolling in the chemistryor biology might be a great idea!)

How do I apply

- *How do I apply? (See Mr. Pikul)*
  - Get an application to the Bridgeport Aquaculture School by ***June 1st.*** Give it Mr Pikul only, he will sign completed applications. ***(step 1)***
  - Then you apply and enroll on line

FOLLOW THESE STEPS

STEP 1: FILL OUT CONSENT FORM

STEP 2: APPLY ONLINE

STEP 3: ACTIVATE NETID

STEP 4: ENROLL/DROP COURSES

This will be done in the fall

STEP 5: PAY YOUR BILL

Bill sent through email

Most students stop at step 2.

Aquaculture registration deadline

- June 1st
  - For **both** fall and spring classes
  - There will also be an add-drop period in the September, at a cost of $25

UCONN ECE FACTS

- 87% of credit transfers (data base on ECE cite)
- 35% of Freshman at Storrs campus are ECE alumni (3600 incoming freshman 2018)
- 85% of students earn credit
- 96% of ECE alumni recommend program

Majority of freshman at college struggle with these 3 major things

- Time management
- Study/Testing Skills
- Grit (resilience)

The Correct Mind Set

Your **goal** in this program ***should*** be:
Experiencing a college class

- in a safe environment

Getting yourself **College READY**

- you are better off figuring that out now, at a vast reduced cost, than Freshman year

You should **not focus** on getting the credits, treat them like a Bonus for your hard work

Any Questions

Any questions, contact Jan Pikul email at janpikul@yahoo.com

(Put UCONN ECE PROGRAM in subject line)

ALL Applications go to Mr. Pikul,

Not

UCONN or guidance (Due June 1st)

- **If you have any interest, go to Edmodo and sign up for Information room**
- **Code is** 893xgp (go to your phone now!)

Edmodo code is time sensitive. If it expires, email Mr Pikul and he will reset it.

University of Bridgeport information

- Physics for UB college credit

UB PHY 201
General Physics I

- An algebra based physics course which presents an introduction to classical mechanics, heat and thermodynamics. 4 credits

See Ms. Mathew with all questions concerning UB course

Prerequisite and Co-requisite

- **Prerequisite**: Algebra 2 (Minimum grade C)
- **Co-requisite:** Currently enrolled in Calculus I

Tentative Lecture and Lab days:

- Lecture: Monday, 3:00- 6:00 pm; Advanced Physics Class
- Laboratory: Tuesday 3:00- 6:00 pm; Advanced Physics Class

Course Objectives:

1. Familiarity with key concepts in Newtonian mechanics and thermodynamics
2. Application of course material in quantitative problem solving
3. Increased comfort in using educational technologies and communicating quantitative information
4. Application of physics concepts in performing laboratory experiments and interpreting data

Tentative list of topics:

1. Introduction to Science, matter, motion and mathematics
2. Linear motion: distance and displacement, speed and velocity, acceleration
3. Vectors and two-dimensional motion
4. Kinematics: motion with constant acceleration
5. Newton's Laws
6. Impulse and momentum
7. Work and energy
8. Rotational motion
9. Phases and phase transitions
10. Temperature and heat