

C² Pipeline



Waterford School District Partnership Dual Enrollment Program

Waterford School District
Board of Education Meeting
October 20, 2016



College of Nursing

We know
NURSING.

C² Pipeline Mission

C2 Pipeline in the Wayne State University College of Nursing inspires and empowers students to prepare for college and academic success through immersive explorations of STEM fields in health that give them the technical skills and knowledge they need to engage in real-life argument, reasoning, problem solving, planning and collaboration.





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C² Pipeline Vision

C2 Pipeline in the Wayne State University College of Nursing is the pre-eminent pre-college university model for graduating high school students with a plan for the future and the skills, confidence, knowledge, and attitude necessary to positively impact their lives and the lives of others.





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C² in Waterford

- ◆ Full Time Wayne State C² Pipeline Staff Member housed at Waterford Mott
- ◆ Tutoring and Enrichment STEM based opportunities to students during the school year Monday to Thursday afterschool
- ◆ Summer Programs based at Wayne State with transportation provided including a 11 day residential program
- ◆ Access to many university resources including a pre-college Innovation and Curiosity Lab designed specifically for pre-college students
- ◆ Pilot Programs



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Dual Enrollment

- ◆ Students attend high school and college concurrently, using the credits earned to count toward both high school graduation and a college degree.
- ◆ Benefits:
 - Head Start on college
 - Save Money
 - Transition more easily to college
 - Access as a Wayne State Student to all University Resources



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Dual Enrollment

- ◆ Typical Models of Dual Enrollment:
 - Specific Course for high school students held at Wayne State or an Outreach Site
 - Combined model with university and high school students attending class together
 - Actual course taught by a university faculty member at the students high school – which is the option available to Waterford Mott and Kettering Students
- ◆ Current 3 credit course is taught at Mott Monday & Wednesday from 1:45 – 4:30



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Typical Undergraduate Cost for Student

Tuition and Fee Calculator

The following amount does not include all fees, (i.e., late registration, course fees, lab fees, or optional fees).

Total Estimated Cost: \$1,397.61

Tuition calculation based on taking **3.0** credit hour(s)

Itemized Tuition and Fees

Resident Undergraduate - Lower Division (Freshman & Sophomore) per CREDIT	\$360.39
HOUR RATE:	
Student Service per Credit Hour Fee:	\$34.33
Registration Fee:	\$213.45

Tuition:	\$360.39 x 3.0 credits =	\$1,081.17
Student Service per Credit Hour Fee:	\$34.33 x 3.0 credits =	\$102.99
Registration Fee:		\$213.45
Total Estimated Cost:		\$1,397.61

PLEASE NOTE: Tuition and fees are subject to change without notice, by action of the Board of Governors. Every effort is made to give as much advance notice as possible.





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Cost Benefit to Waterford Student:

Tuition (3 credits @ \$360.39)	\$1,081.17
Student Service Fee (3 credits @ \$34.33)	\$102.99
Registration Fee (waived)	\$0.00
TOTAL	\$1,184.16

Waterford School District Dual Enrollment Share	\$538.75
Wayne State University C ² Pipeline Program	\$545.59
Student Share *	\$150.00

*Scholarships are available if needed





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Current Course:

BE1200: Basic Engineering 1200 (Robotic Lego Design) 3 credits.

Explore the concepts of design by building, programming, and experimenting with a LEGO Mindstorms® microprocessor-based robotics building kit. The Lego Mindstorms Robotic System is very sophisticated. The heart of the system is a microprocessor, which monitors a variety of sensors and controls a set of actuators. Typically, the sensors include light sensors, touch sensors, temperature sensors, and sensors that can measure angular position. The actuators include DC motors that can be used to navigate in an environment or to grasp and manipulate objects."





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Other Benefits

- ◆ Earn college credit toward a degree not just
- ◆ Receive conditional and/or full admission to the College of Engineering
- ◆ Course *may* transfer to other college/university
- ◆ Access to college of engineering advising staff
- ◆ Access and Assist with College of Engineering scholarships
- ◆ College of Engineering EOS Program - EOS is the early engineering program at Wayne State University, and is geared towards introducing students to the concepts of design.
- ◆ Apply for Summer Job as Camp Engineering Counselor
- ◆ Professor/Teacher Assistants could be available to assist with Robotic Team as mentors





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Future Plan:

Winter 2017:

- ◆ BE1500: Introduction to Programming and Computation for Engineers. Use of computational tools, such as Excel and MATLAB, to solve engineering problems. Topics include general engineering problem solving, algorithm development, programming, and computational analysis.

Fall 2017 and Beyond:

- ◆ Continue with Engineering Tract Course
- ◆ Add course(s) that tract toward degrees/careers in health care including Nursing.



Dual Enrollment

Current Students:

- ◆ Lauren Ward, 12th Grader – Waterford Mott
- ◆ Kyle Bunge, 12th Grader – Waterford Mott



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