

TECHNOLOGY & ENGINEERING EDUCATION COURSES

MEDIA PRODUCTION

0674 Media Production 1
9 weeks, .5 credit

0675 Media Production 2
9 weeks, .5 credit

0676 Media Production 3
9 weeks, .5 credit

0678 Media Production Practicum
9 weeks A/B, .5 credit

ENGINEERING

6721 Engineering 1
18 weeks, 1 credit

6722 Engineering 2
18 weeks, 1 credit

ARCHITECTURAL DESIGN

6360 Exploratory Architectural Design *
9 weeks, .5 credit

6361 Architectural Design 1
18 weeks, 1 credit

6362 Architectural Design 2
18 weeks, 1 credit

6363 Architectural Design 3
18 weeks, 1 credit

* After completing this course students should next enroll in Architectural Design 2

INSTRUCTORS

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<http://cbsd.org/domain/2396>

SOFTWARE PROGRAMS UTILIZED IN OUR CLASSES

CorelDRAW GRAPHICS SUITE



UNIVERSAL
LASER SYSTEMS INC.

Mastercam

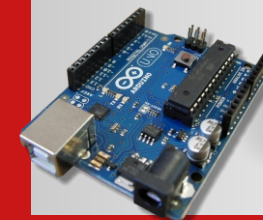
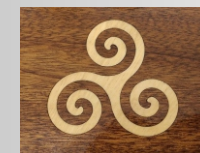
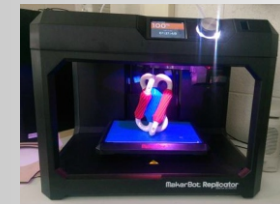
Roland



**CENTRAL BUCKS
HIGH SCHOOL EAST**

TECHNOLOGY & ENGINEERING EDUCATION

AREAS OF STUDY AND COURSE OFFERINGS



MEDIA PRODUCTION

ROOM C101

This course explores digital video production, concentrating on the role of the producer, writer, and director, through production and post-production techniques. Students will plan, research, write, produce, and edit informational video productions for distribution to audiences in school and in the community. Students may learn the journalistic skills of broadcast news, do investigative reporting, practice on-camera talent techniques, produce and direct interview shows, or create video features.



TRICASTER
BROADCASTING TECHNOLOGY



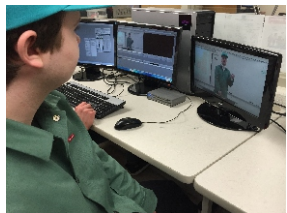
PROFESSIONAL
HD CAMERAS & DJI DRONES



STATE-OF-THE-ART
VIRTUAL SET TECHNOLOGY



PATRIOT PRIMETIME
DAILY MORNING SHOW



TRIPLE MONITOR VIDEO EDITING
USING PROFESSIONAL SOFTWARE

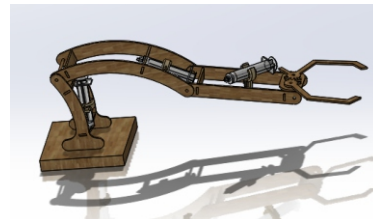


FUN AND ENGAGING PROJECTS

ENGINEERING

ROOM C102

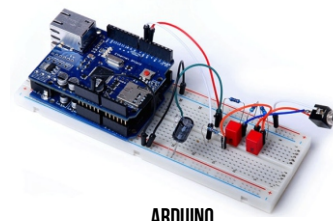
In these courses students will be introduced to concepts found in the various fields of engineering. Students will be exposed to the engineering design process and then use it to solve problems related to basic engineering concepts. In addition to using computer numerical controlled machines, robotics, electronics, and a laser engraver, students will be introduced to high level 3-dimensional design software. Expectations throughout the course will be to use a variety of techniques and current real-world technologies.



HYDRAULIC ARM
SOLIDWORK'S MODEL



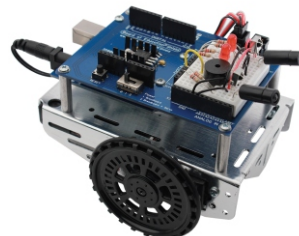
CUSTOM GRAPHIC
T-SHIRT DESIGN CHALLENGE



ARDUINO
PROTOTYPING BOARD



RAPID PROTOTYPING
W/ 3D PRINTER



ROBOTICS W/
PARALLAX'S BOE BOT

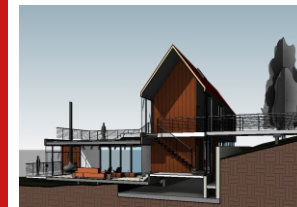


CUSTOM INLAY USING
ROUTER & LASER TECHNIQUE

ARCHITECTURAL DESIGN

ROOM C104

This program is highly recommended for students interested in pursuing various careers in architecture or engineering upon graduation. Students will be introduced to the engineering design process and use it to solve problems related to residential home layout, site development, elements of design and advanced model building related to architecture & engineering. Class time will be devoted to CAD (computer-aided design), 2D & 3D modeling software.



AUTODESK'S REVIT
3D MODELING



ABSTRACT DESIGN
PROBLEM ONE



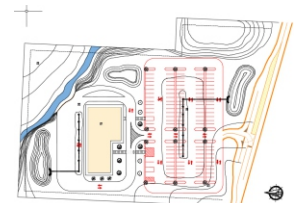
AUTODESK'S AUTOCAD
ELEVATION DRAWING



RESIDENTIAL
FLOOR PLAN DESIGN



DISPLAY
MODELING BUILDING



SITE PLAN DEVELOPMENT