



IT & PRE-ENGINEERING

ACADEMY NEWSLETTER
OCTOBER 2023

ACADEMY OVERVIEW

Mather’s Information Technology (IT) and Pre-Engineering Academies focus on increasing a student’s technical skills to prepare them for our ever-changing digital world. While both focus on logic, problem-solving, collaboration, and critical thinking, each has its own way to build these skills. Each program allows students to use these transferable skills in and outside of the classroom.



The ideal candidate should possess the following qualities:

- An interest in STEM subjects
- Willing to take Honors Math & Science Classes
- Hard-working
- Enjoys problem solving



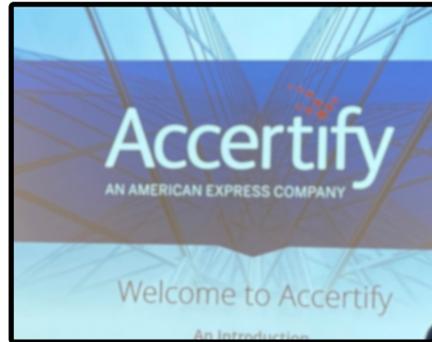
COURSE SEQUENCE

GRADE LEVEL	IT ACADEMY	PRE-ENGINEERING
9TH	EXPLORING COMPUTER SCIENCE (ECS)	INTRO TO ENGINEERING DESIGN
10TH	FUNDAMENTALS OF INFORMATION TECHNOLOGY (FIT)	PRINCIPLES OF ENGINEERING
11TH	GAMING CONCEPTS I OR WEB DEVELOPMENT I	DIGITAL ELECTRONICS
12TH	GAMING II OR WEB II & COMPUTER SCIENCE (HONORS OR AP)	ARCHITECTURE & CONSTRUCTION & COMPUTER SCIENCE (HONORS OR AP)
COUNSELORS	PAIGE STENZEL	KAREN ROJEK
ACADEMY CONTACT	TERIAH ABRAMS	PAUL HEASE

ACADEMY HIGHLIGHTS



COMMUNICATION
SKILLS FOR BUSINESS



CERTIFICATIONS

Students have the opportunity to take several certification exams including, but not limited to:

- Microsoft Word
- Microsoft PowerPoint
- Microsoft Excel
- Communication Skills for Business
- Digital Literacy
- Python
- Javascript
- HTML/CSS

Most students graduate with at least 6-7 certifications. Last year 90% of our students earned over 200 certifications! We look to increase this goal every year.

WORK BASED LEARNING EXPERIENCES & COLLEGE VISITS

Students have the opportunity to attend college visits and job shadows. Students visited UIC, NIU, and IIT last year. Students also have the opportunity to attend job shadows and participate in summer internships.



CLUBS & ACTIVITIES

(RELATED TO IT & PRE-ENGINEERING)

- GIRLS WHO CODE
- FBLA (FUTURE BUSINESS LEADERS OF AMERICA)

COMING SOON...

- ROBOTICS
- SWIFT CODING CLUB

TEACHERS

MS. ABRAMS - GAMING I & II / AP COMP. SCIENCE
MR. HEASE - PRE-ENGINEERING
MS. HILL - ECS & FIT
MR. IKRAMULLAH - WEB I & II / HONORS COMP. SCIENCE
MRS. MORRIS - ECS & FIT