ACADEMY OF ENGINEERING

LYMAN HIGH SCHOOL

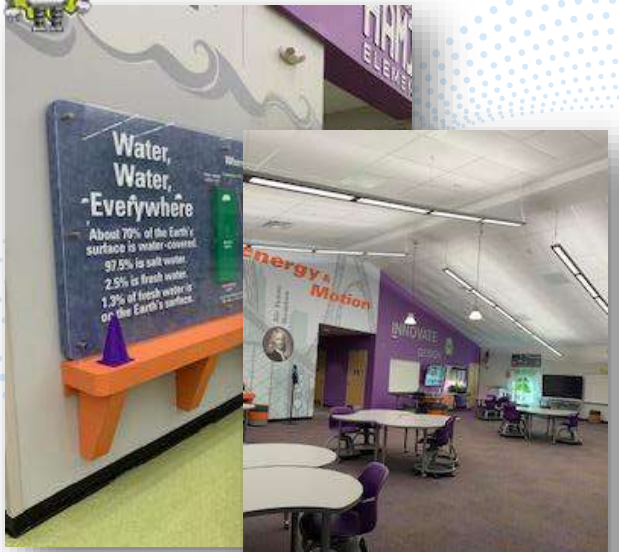
Empower the youth of today to innovate tomorrow.

Seminole County Public Schools

- “A”-rated district (2018)
- Ranked #1 in the state in STEM (2020)
- One of the top districts in the state in Calculus & Physics Enrollment.
- 5th best school district in Florida by Niche.com for 2022.
- Proud member of the League of Innovative Schools, a national coalition of forward-thinking school districts organized by Digital Promise.
- Named the 1st Full Immersion Computer Science Lighthouse District in Florida by Code to the Future.

Building Success

Hamilton Elementary School of Engineering & Technology



Pine Crest Elementary School of Innovation

Milwee Middle School Pre-Engineering Magnet

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New Career Innovation Center

- “Collaboratorium”, a hybrid space designed to engage engineering students with our technical education programs for a well rounded experience

History of Excellence

- Over 20 years of academic excellence
- Magnet Schools of America Distinction Award
- Experience educators
- National Merit Scholar Students
- Won attendance at Apple's app developer conference
- 1st place awards at UCF annual SECME competitions
- 1st place in the Astronaut Challenge
- Robotics Club
- Technology Student Association (TSA)
- SECME
- Energy Whiz
- STEM activities and competitions
- Biology and Medicine Club
- SWENext (Society of Women Engineers)

OUR MISSION

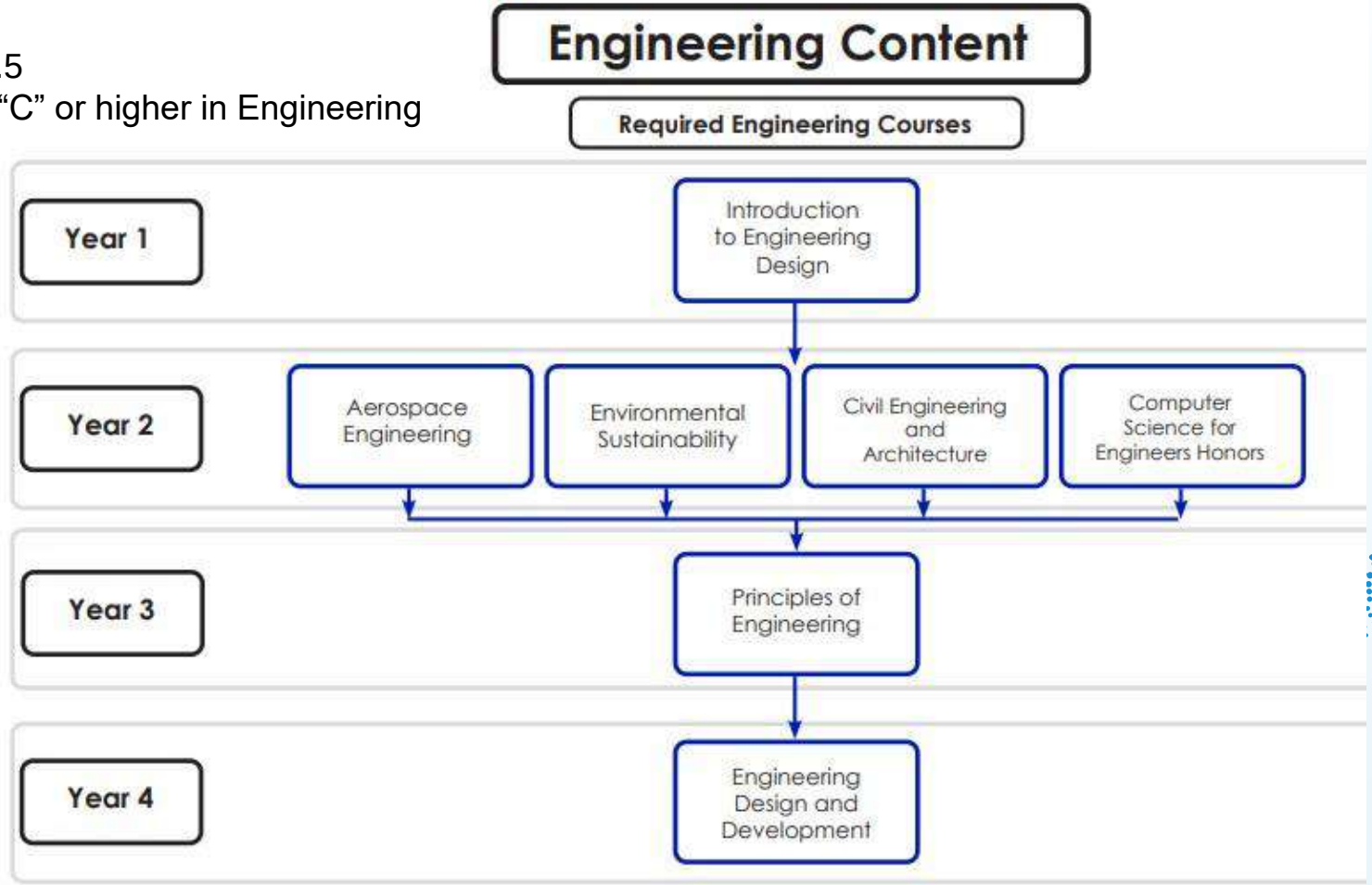
Empower the youth of today
to innovate tomorrow.

Learning Reimagined

- Two courses required - Engineering Content and Engineering Area of Specialization
- 9th Grade Certification in Autodesk Inventor
- 10th, 11th, 12th – Dual Enrollment (9 credits) with Seminole State College + Certifications in Revit and specializations paths
- Potential to earn Gold Seal Bright Futures Scholarship
- Program completer receives a Merit Diploma

SSC

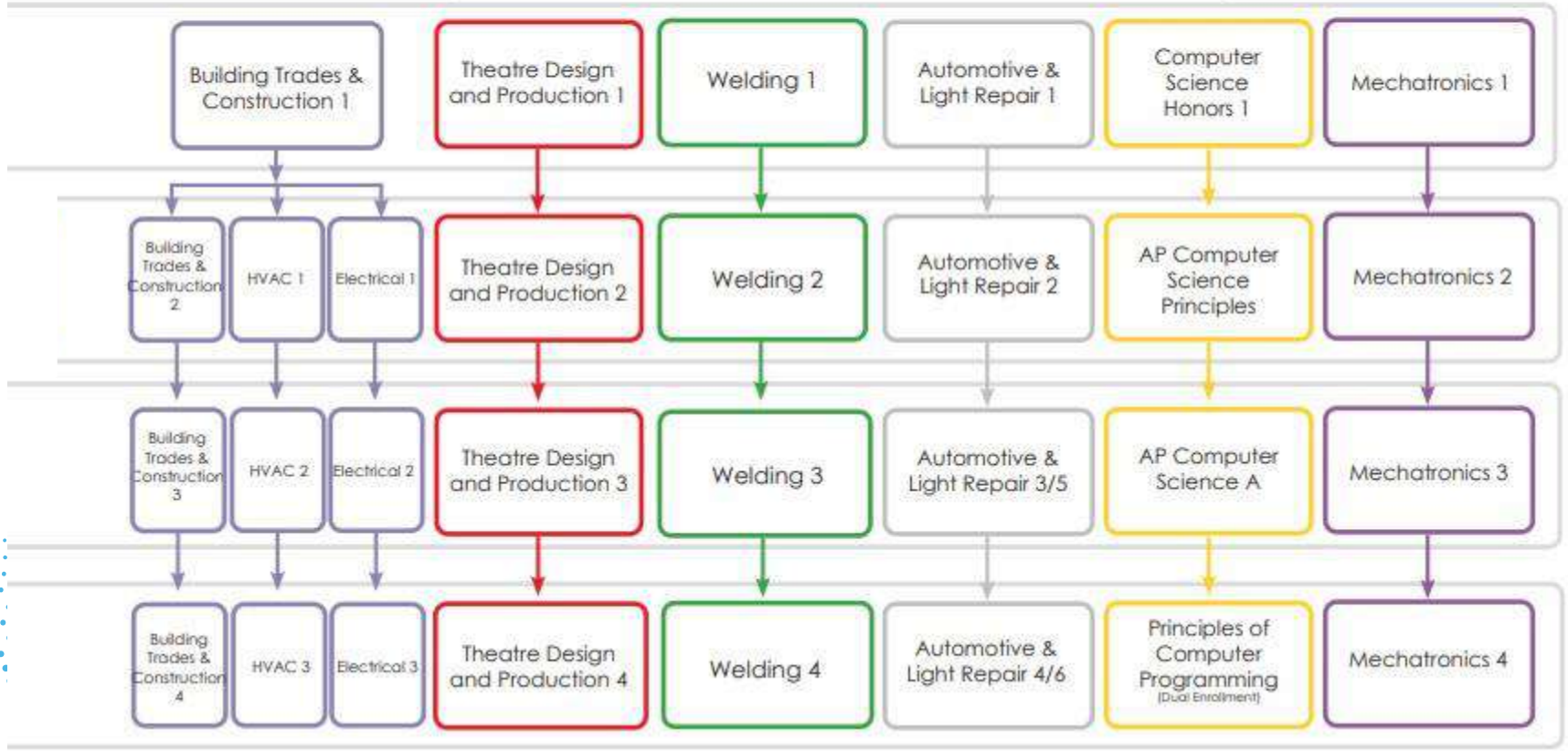
- GPA 2.5
- Grade “C” or higher in Engineering



PLUS

Engineering Area of Specialization

Students must choose one path in addition to Engineering course



Civil/Architectual Engineering – Building Trades & Construction

This series of courses allow students interested in the Civil and Architectural Engineering. As a civil engineer, you would oversee construction of buildings, infrastructure, homes, etc. Students will build residential/commercial structures while learning electrical/plumbing/HVAC and other essentials skills for applying engineering concepts. Students can take the knowledge learned in these courses to the next level by pursuing industry certifications, workplace learning experiences, or apprenticeship

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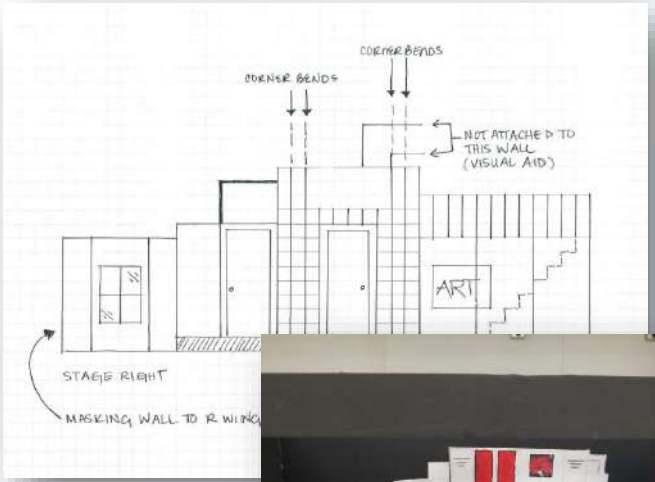
Architectural/Lighting/Sound/Audio Engineering – Technical Theatre Design & Production

Students learn the basics of standard conventions of design, including hand drafting, technical drawings, set building and production. Students will design sets and learn the lighting and sound requirements for stage productions. These experiences are the foundation for work in the entertainment industry. This is a non-performance theatre class.



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Industrial/Manufacturing/ Civil/Mechanical/ Engineering – Welding

Students study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices. Students demonstrate learned skills by creating and producing a finished product. The progression of courses will contain Welding level 2 in the 2022-2023 school year.

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Computer Engineering – Computer Science

Computer Engineering can include maintenance of computers, design and implement innovative solutions using an iterative process like what artists, writers, computer scientists, and engineers use to bring ideas to life. This field is a subset of electrical engineering with and includes integration of computers in our everyday lives.

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Mechanical/Electrical Engineering – Automotive & Light Repair

Students interested in the automotive design field have an opportunity to learn engine fundamentals, brakes, computer, electrical diagnosis, brakes, steering & suspension systems, auto/ manual drive and engine performance. Students could earn a range of industry certifications through Automotive Service Excellence (ASE) as well the Florida Automotive Dealers Association (FADA).

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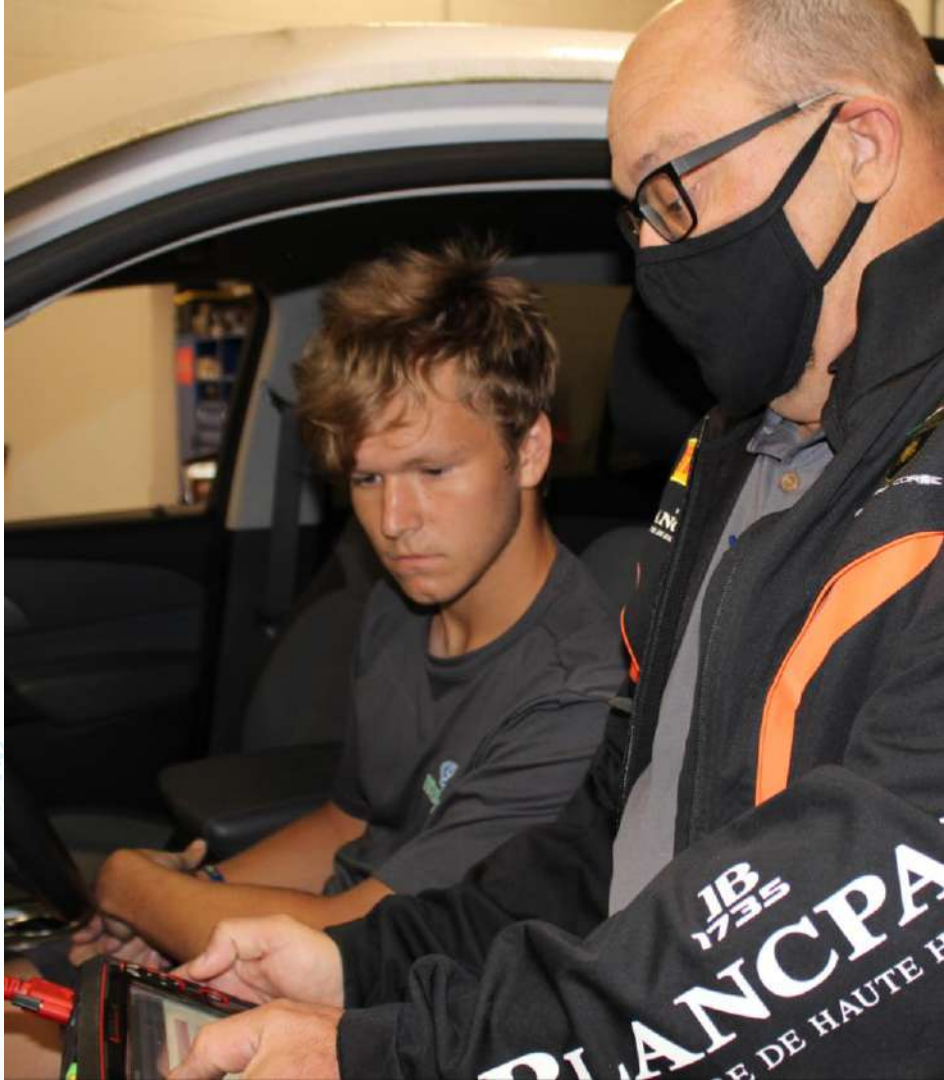
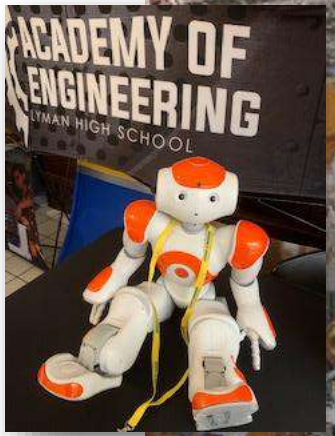


Mechanical/Electrical Engineering – Mechatronics

This is an exciting emerging field that covers everything from aerospace to automotive. Combining both mechanical and electronics, writing codes to designing robots, medical devices and industry robotics. Students learn how to design and build robotic systems while enhancing their knowledge of automation, including artificial intelligence, electronics, physics, and principles of engineering. Students in this program can receive industry certifications as well as participate in our FIRST robotics competition.



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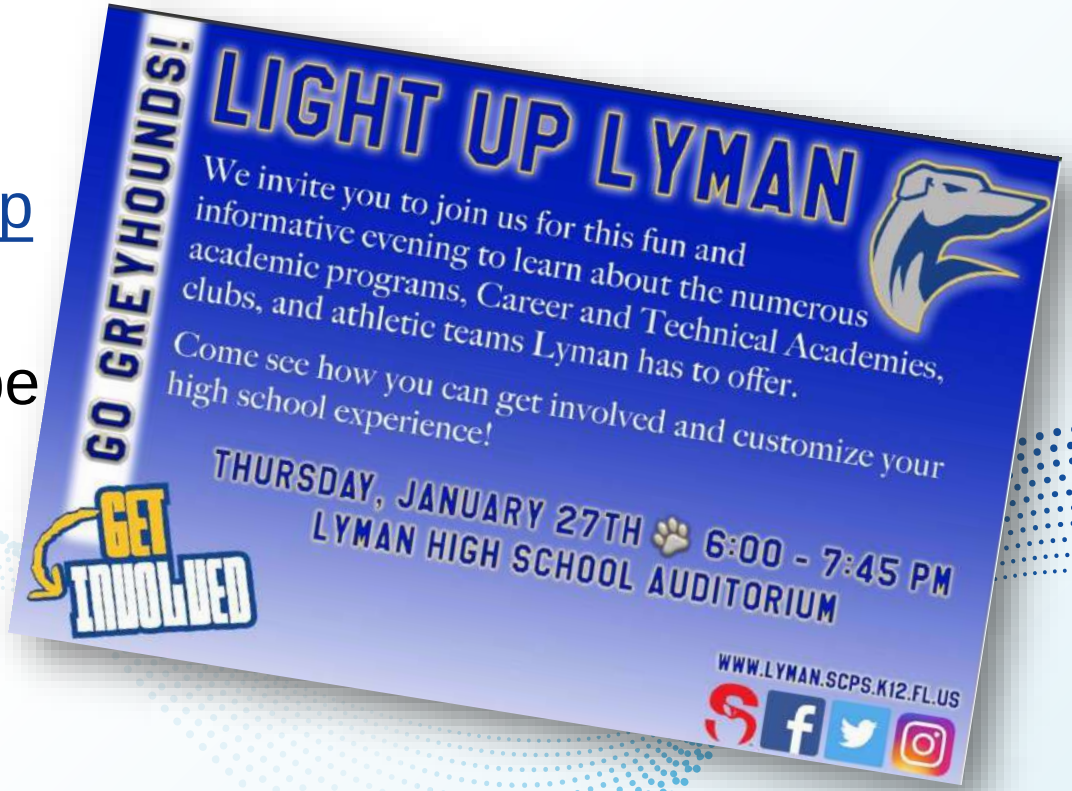
What is next?

- **Jan. 27** - Lyman will host it's annual Light Up Lyman curriculum event. The event will be Face to Face and will begin in the auditorium at 6:00 PM.



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Registration Dates

- **Feb. 1 - Feb. 14. -** Lyman will automatically input core academic classes into Skyward (Math, English, and Science)
- **Feb. 14** - A registration email will be sent to 8th grade students/parents slated to attend Lyman next year. **Please check your spam filter.

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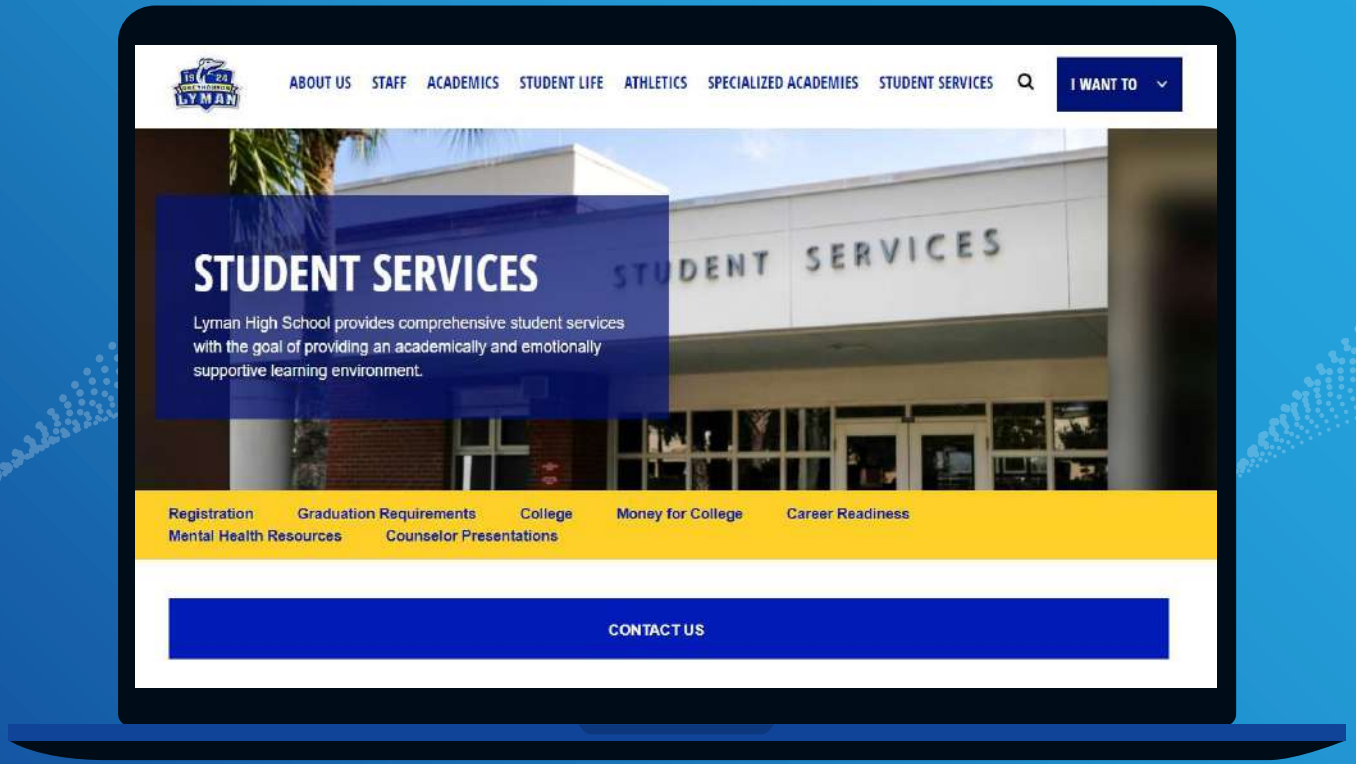

http://www.lyman.scps.k12.fl.us/student-services/

Welcome to Lyman High School

Any questions?