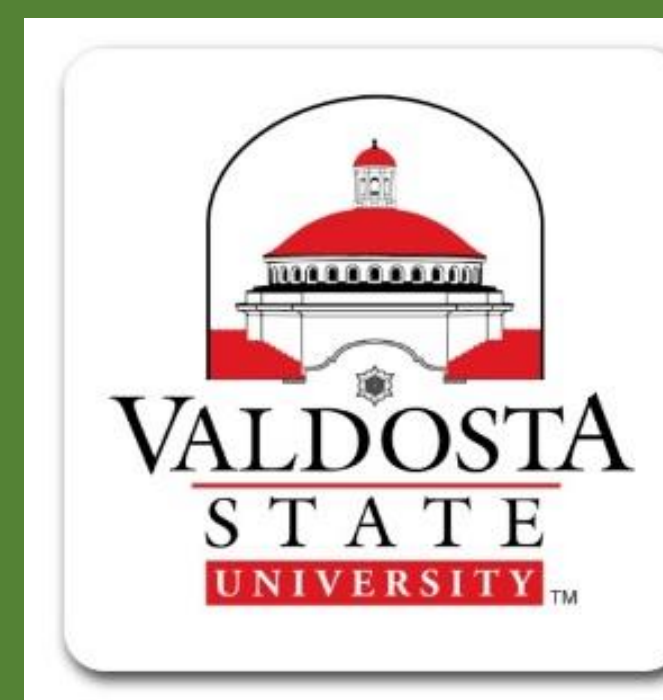# Bachelor of Science (B.S.) Degree in Engineering Technology at VSU Starting with Industrial Engineering Technology (Effective Fall 2020)

General Description and Program Objectives of B.S. in Engineering Technology

The curriculum of the B.S. degree in Engineering Technology at VSU is designed to provide students with the opportunity to pursue a career in an engineering field or continue their educations towards other degrees in engineering technology (or in engineering by taking more math and other courses). Within the B.S. in Engineering Technology, we will have the initial track of Industrial Engineering Technology and will be accepting freshman students for B.S. degree in this track to start in the Fall semester of 2020. The students enrolled in the B.S. in engineering technology will be able to built upon a strong foundation in physics, engineering technology, mathematics, computer sciences, business, humanities, and social sciences.

Sample Program of Study
1st year
Fall (total 15 hours)
MATH 1113 Precalculus (3 hours, Area A)
ENGL 1101 Composition I (3 hours, Area A)
ENGT 2010 Intro Eng'g (3 hours, Area F)
HIST 2111 US History to 1865 (3 hrs, Area E)
ECON 1500 Survey Economics (3 hrs, Area E)

Spring (total 16 hours)
ENGL 1102 Composition II (3 hours, Area A)
ENGT 2500 Eng'g Graphics I (3 hrs, Area F, cross-listed with ENGR 2500)
ENGT 2520 Eng'g Economics (3 hours)
MATH 2261 Calculus I (4 hours, Area D)
POLS 1101 American Government (3 hrs, Area E)

2nd year
Fall (total 16 hours)
PHYS 2211K Principals of Physics I (4 hrs, Area D)
ENGL 3020 Tech Writing & Editing (3 hrs)
MATH 2262 Calculus II (4 hrs, Area F or program requirement)
ENGT 3500 Eng'g Graphics II (3 hours)
PERS (2 hours, Area B, Required by VSU)

Spring (total 15 hours)
MATH 1401 Statistics (3 hrs, Area F or program requirement, new)
PHYS 2212K Principles of Physics II (4 hrs, Area D)
ENGT 3520 Industrial Safety Eng'g (3 hrs)
CS 1340 Computing for Sci (3 hrs, Area F)
PERS (2 hours, Area B, Required by VSU)

3rd year
Fall (total 15 hours)
ENGT 2530 Statics (3 hours)
ENGT 3510 Advanced Statistics, Eng'g Tech (3 hrs)
ENGT 3150 Supply Chain & Logistics (3 hrs)
PSYCH Fundamental Psychology (3 hrs, Area E)
COMM 1100 Public Speaking (3 hrs, Area C)

Spring (total 15 hours)
ENGT 4510 Basic Electricity & Electronics (3 hrs)
ENGT 3530 Intro Manufacturing Systems (3 hrs)
ENGT 3120 Plant Layout & Material Handling (3 hrs)
ENGT 3130 Industrial Cost Control (3 hrs)
ENGL 2113 World Literature III (3 hrs, Area C)
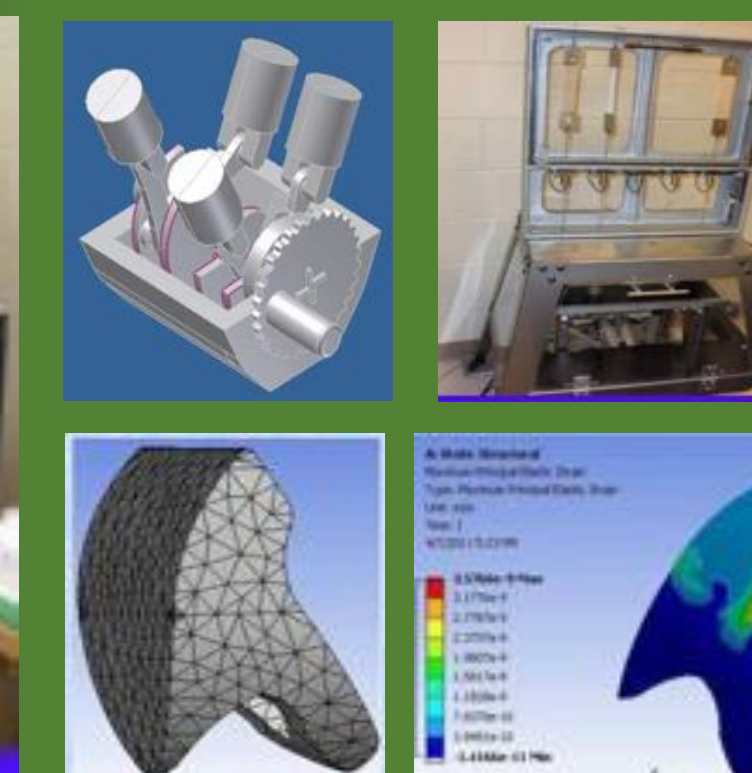
4th year
Fall (total 15 hours)
ENGT 4500 Technical Project Proposal Lab (1 hr)
ENGT 4520 Applied Thermodynamics (3 hrs)
ENGT 4100 Motion & Time Study (3 hrs)
CHEM 1211 and CHEM 1211L (4 hrs, Area F)
ENGT 4120 Project Management Industry (3 hrs)

Spring (total 15 hours)
ENGT 4550 Technical Project Lab (2 hrs)
ENGT 4110 Industrial Automation (3 hrs, program requirement)
Free electives (9 hours)

Track of Industrial Engineering Technology

The B.S. degree in the track of industrial engineering technology at VSU is a multi- disciplinary track that involves many lecture-based courses related to engineering, math, statistics, computer science, and business. However, all senior engineering studies students will be required to complete a capstone proposal and project prior to graduation where each student will design and carry-out in collaboration with a faculty member a project that reflects the knowledge and skills developed in engineering technology. Examples of past projects completed by former engineering students are available on the display areas (e.g., engineering computer lab). VSU's faculty are dedicated to working with students in project-based learning, and student engagement will continue in the field of industrial engineering technology.