Institutional Student Learning Outcomes   **Engineering Program**

Hagerstown Community College students will be prepared to:

Learning Outcomes	Demonstrated By	Related Activity Examples
1. Demonstrate personal and social responsibility by practicing responsible citizenship, being open to new ideas, and experiencing cultural diversity	Collaboration/teamwork Ethical reasoning and action Involvement in campus life Healthy Lifestyle	Engineering Ethics component of EGR 103 Complete Required Humanities and Diversity requirement for degree program STEM club Teamwork within Engineering Projects

2. Practice intellectual and practical skills such as critical and independent thinking, effective communication, and knowledge acquisition and application	Academic success
	Involvement in campus life
	Integration of digital resources into learning experiences
	Information Literacy
		Completion of Engineering program
		Completion of group projects
		    Mission to Mars Design Project
		    Robotics Project
		    Bridge Project
		Design Reports and Verbal presentations for design projects
		Engineering Tools
		    CREO
		    MATLAB
		    Excel
		Use of Moodle
		Use of Library databases

3. Demonstrate self-direction, persistence and lifelong learning	Develop/achieve college goals
	Application of knowledge, skills, and responsibilities to future situations
		Select Engineering Discipline
		Complete rigorous courses
		    EGR 203, 204 and/or 208
		Use college resources to self-advise
		    Web-Advisor
		    FAA Catalogue
		Complete Internship related to program
		Transfer to upper division program
		    Plan four-year degree program
		    Complete transfer plan

4.		

,