B.A.S. in Automation and Control Systems

Degree Audit Worksheet

Student Name: _____

Date: _____

University Core Requirements (32 CR)

Code	Course	CR	Grade
MTH3030	Linear Algebra	4CR	_____
PHY2001	Physics I	4CR	_____
BUS2090	Introduction to Sustainable Practices	4CR	_____
WRI1001	Composition and Rhetoric 1	4CR	_____
MTH2151	Calculus I	4CR	_____
CHM1301	Basic Chemistry	4CR	_____
BUS1050	Social Responsibility in Business	4CR	_____
COM2001	Public Speaking	4CR	_____

Automation and Controls Major (56 CR)

Code	Course	CR	Grade
AIE1010	Principles of Measurement	4CR	_____
CSM3020	Intro to C	4CR	_____
AIE2030	Sensors and Transducers	4CR	_____
EE 2030	Electronics Lab Fundamentals	4CR	_____
AIE2040	Instrumentation Workshop Practice	4CR	_____
AIE3020	Industrial Measurements	4CR	_____
AIE2020	Electronic Measurement and Instruments	4CR	_____
AIE3030	Control System Components	4CR	_____
EE 2020	Basics of Electronics Engineering	4CR	_____
EE 3020	Digital Techniques	4CR	_____
EE 3010	Applied Electronics	4CR	_____
EE 2010	Fundamentals of Electrical Engineering	4CR	_____
AIE2010	Electrical Machines	4CR	_____
AIE2050	Machine Safety & Risk Assessment	4CR	_____

Electives (32 CR)

Code	Course	CR	Grade
AIE2060	Process Control Systems	4CR	_____
AIE2080	Maintenance of Instruments & Systems	4CR	_____
AIE2070	Industrial Automation	4CR	_____
EE2060	Instrumentation Circuit Design	4CR	_____
AIE2050	Biomedical Instrumentation	4CR	_____
AIE2100	Unit Operations & Instrumentation	4CR	_____
EE2050	Microcontrollers	4CR	_____
EXP4000	Capstone Project	4CR	_____
AIE4110	Analytical Instrumentation	4CR	_____
AIE4120	PLC and SCADA Systems	4CR	_____
AIE4130	Advanced PLC Programming	4CR	_____
AIE4060	Power Plant Instrumentation	4CR	_____
AIE4040	Building Automation	4CR	_____
AIE4090	Distributed Control Systems	4CR	_____
EE4040	Advanced Embedded Systems	4CR	_____
AIE4140	Image Processing	4CR	_____
AIE4150	Variable Speed Drives	4CR	_____
AIE4160	Machine Vision and Automated Inspection	4CR	_____
AIE4170	MATLAB	4CR	_____
EXP3100	Co-op 1	0CR	_____
EXP3200	Co-op 2	0CR	_____
EXP3300	Co-op 3	0CR	_____
EXP4100	Co-op 4	0CR	_____
EXP4200	Co-op 5	0CR	_____
EXP4300	Co-op 6	0CR	_____

Total Number of Credits: 120

Notes:

1. To earn a Bachelors degree, all graduates must successfully complete a minimum of 120 credit hours.
2. Minimum of 32 credits must be taken at Centenary University.
3. All graduates must have a minimum cumulative grade point average of 2.0 or above.
4. All graduates must have a minimum of 2.0 GPA in their major(s).
5. Courses that are special topic listed in the title, typically ending with a 99, are repeatable. Courses are counted multiple times and do not replace grades of the previous special topic course.
6. Credits can only be shared between the core and the major or core and minor requirements. Shared credits within the core requirements is not allowed.