

Program:	Interdisciplinary Engineering
Degree:	BS
Department:	CLEN
Contact Name:	Rachal Thomassie
Contact Phone:	979-845-2643

Outcome	Master the depth of knowledge required for a degree
Marketable Skills	<p>(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics</p> <p>(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions</p> <p>(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts</p>

Outcome	Demonstrate critical thinking
Marketable Skills	<p>(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics</p> <ul style="list-style-type: none"> • Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems. • Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Outcome	Communicate effectively
Marketable Skills	<p>(3) an ability to communicate effectively with a range of audiences</p> <ul style="list-style-type: none"> • Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

Outcome	Practice personal and social responsibility
Marketable Skills	<p>(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts</p>

Outcome	Demonstrate social, cultural, and global competence
Marketable Skills	<p>(2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors</p>

Outcome	Prepare to engage in lifelong learning
Marketable Skills	<p>(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts</p> <ul style="list-style-type: none"> Establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.

Outcome	Work collaboratively
Marketable Skills	<p>(5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives</p> <ul style="list-style-type: none"> Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Notes:

- Marketable skills listed with a numbers (1)-(7) for this example program were drawn from ABET Criterion 3.
- Alternate sources for degree-specific marketable skills include learning outcomes and associated metrics used for programmatic assessment
- Learning outcomes or skills required for programmatic accreditation