



- PUBLIC
- INDEPENDENT

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

When finished, please save and email to: he.academicprogramactions@dhe.mo.gov

Sponsoring Institution:

Program Title: Sustainability

Degree/Certificate:

If other, please list:

Options:

Delivery Site: online

CIP Classification: 33.3301

Implementation Date: 8/1/2020

Is this a new off-site location? Yes No

If yes, is the new location within your institution's current CBHE-approved service region?

**If no, public institutions should consult the comprehensive review process*

Is this a collaborative program? Yes No

**If yes, please complete the collaborative programs form on last page.*

CERTIFICATIONS

- The program is within the institution's CBHE approved mission. *(public only)*
- The program will be offered within the institution's CBHE approved service region. *(public only)*
- The program builds upon existing programs and faculty expertise
- The program does not unnecessarily duplicate an existing program in the geographically-applicable area.
- The program can be launched with minimal expense and falls within the institution's current operating budget. *(public only)*

AUTHORIZATION

Name/Title of Institutional Officer	Signature	Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

Standard University admission requirements apply.

- Characteristics of a specific population to be served, if applicable.

Returning students wishing to complete a program focusing on sustainability and the impact of people within their environment.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

A terminal degree in an area related to the courses being taught. Candidates with Master Degrees, with extensive professional and/or teaching experience will be considered.

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

It is estimated that 30% of the credit hours will be instructed by full time faculty. This percentage will be revised based on student enrollment and the needs of the university.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Faculty are expected to stay current in sustainability and environmental science trends, policies, and business practices by participating in local and national professional organizations, internship review, capstone review, student advising, and ongoing pedagogical research/training. Faculty will promote innovative teaching practices as aligned with Maryville's strategic plan and be highly engaged with students throughout the learning process.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.

372

- Percent of full time and part time enrollment by the end of five years.

This program has been designed for adult undergraduate degree completion students - 25% are expected to be full-time and 75% are expected to be part-time.

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	2	11	28	50	72

Part Time	3	34	82	151	215
Total	5	42	110	201	287

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
Depending on transferability of completed courses, we expect 15 graduates at 3 years and 70 at the end of 5 years.
- Special skills specific to the program.
Students will leave the program with the skills and competencies as defined by program outcomes and require for success within the industries of sustainability, environmental science, business, and policy.
- Proportion of students who will achieve licensing, certification, or registration.
Not applicable.
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
Not applicable
- Placement rates in related fields, in other fields, unemployed.
No data is currently available since the program has not begun; although Bureau of Labor statistic reviewed prior to program development indicate that available positions in the field will grow above the national average of 5% between 2018 and 2028 with some related careers like environmental science technician growing by 9%. This, coupled with our high success rate in job placement for Maryville graduates (97% placement), gives strength to future placement rates for these students. We anticipate **85% in related fields, 10% other fields, 5% unemployed.**
- Transfer rates, continuous study.
75% will remain in continuous study, 25% will transfer from or leave the program.

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.
All Maryville programs are regionally accredited by the Higher Learning Commission. Specialized accreditation in this field is not necessary.

6. Program Structure

- Total credits required for graduation: 128
- Residency requirements, if any:

Last 30 hours

C. General education: Total credits:
40 – 50 credits

<u>General Education (42 credits)</u>	<u>Sustainability Courses (40-50 credits)</u>
I. Skills/Processes for Literacy (4 courses)	Core Courses (7 courses)
A. INTD 101 University Seminar (3)	SUST 101: Introduction to Sustainability (3)
B. ENGL 101 Composition: Theme Writing (3)	SUST 201: Environmental Science and Health (3)
C. ENGL 104 Composition: The Essay (3)	MATH 141: Elementary Statistics or PSYC/SOC 341: Understanding Statistical Reference or ISYS 241: Business Statistics (3)
D. Mathematics –MATH 102 or MATH 115 or higher (3)	HUM 211: Nature and Humanity (3)
	BIOL 120: Biology I (4)
II. Humanities (3 courses)	SUST 210: Earth Systems (3)
A. Literature/Language – ENGL or Foreign Language (3)	SUST 499: Internship/Capstone (3)
B. Philosophy (3)	Concentration: Environmental Science (15-17 credits)
C. Humanity Elective (3)	BIOL 121: Biology II (4)
	BIOL 35X: Ecosystems studies (4)
III. Social Science (3 courses)	CHEM 120: General, Organic, and Biochemistry (3)
A. Psychology (3) PSYC 230 Psychology of Design Recommended	SCI 132: Energy and Our World (3)
B. History or Government Elective (3)	SUST 310: Climate Science (3)
C. One course selected from the following disciplines: ECON, GEOG, HIST, PSCI, PSYC, SOC (3)	Concentration: Business (15 credits)
	SUST 220: Economics of Sustainability (3)
IV. Natural Science/Quantitative Reasoning (2 courses)	SUST 320: Finance and Sustainability (3)
A. Science Elective - BIOL, CHEM, ENV, PHYS, SCI (3)	SCI 132: Energy and Our World (3)
B. Math or Science Elective (3)	SUST 375: Strategies in Sustainability (3)
	SUST 330: Sustainable Agriculture (3)
V. General Education Electives from College of Arts and Sciences (except courses within the major) (2 courses total)	Concentration: Policy (15 credits)
A. General Education Elective #1 (3)	ENV-460/LEGL 460: Environmental Law and Policy (3)
B. General Education Elective #2 (3)	SUST 220: Economics of Sustainability (3)
	SCI 132: Energy and Our World (3)

	SUST 375: Strategies in Sustainability (3)
	SUST 330: Climate Science (3)
	Electives (9-12 credits)
	ADID 324: Issues of Sustainable Design (3)
	BIOL 104: Intro to Microbiology (4)
	BIOL 314: Plant Science (4)
	COMM 251 - Principles of Strategic Communication (3)
	COMM 422: Global and Intercultural Communication (3)
	DSCI 200: Foundations of Data Science (3)
	DSCI 302: Introduction to R (3)
	SCI 337/ADAH 337: Intro to GIS (3)
	SOC 381-Urbanism and the Built Environment (3)
	SUST 150: Sustainability Exploration Seminar (3)
	SUST 350: Sustainability Expedition (3)

D. Free elective credits: 23 credits

(sum of C, D, and E should equal A)

E. Requirements for thesis, internship or other capstone experience:

Students are required to complete an internship that is within the scope of their chosen sustainability track, and then submit a portfolio of the skills and real-world experience. Alternatively, a student could identify a local sustainability issue, research and design a plan to address and implement changes, and then present their findings to their peers.

F. Any unique features such as interdepartmental cooperation:

Not Applicable

7. Need/Demand

Student demand

Market demand

Societal demand

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.

COLLABORATIVE PROGRAMS

- **Sponsoring Institution One:**
- **Sponsoring Institution Two:**
- **Other Collaborative Institutions:**
- **Length of Agreement:**
- **Which institution(s) will have degree-granting authority?**
- **Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?**
- **What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?**
- **Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?**
- **What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?**

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