

**Affordable Learning Georgia Textbook Transformation Grants
Gateways to Completion Pilot
Beginning Summer Semester 2018, Ending Fall Semester 2019
Applications Due Friday, May 18, 2018**

Please submit at least a draft application by May 18. If you will need more time, please contact Jeff Gallant at jeff.gallant@usg.edu as soon as possible.

Proposal Form and Narrative

Italicized text is provided for your assistance; please do not keep the italicized text in your submitted proposal.

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Applicant Name	Leslie Pryor McIntosh, PhD
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Applicant Title	Assistant Professor
Applicant Phone Number	682-667-2207/229-391-5106
Institution Name(s)	Abraham Baldwin Agricultural College
Team Members	Dr. Leslie Pryor McIntosh, lpryor@abac.edu , Assistant Professor Dr. Kingsley Dunkley, kdunkley@abac.edu , Professor Dr. Marvin Holtz, mholtz@abac.edu , Professor Dr. Heather Cathcart, hcathcart@abac.edu , Associate Professor

	Dr. Andrew McIntosh, amcintosh@abac.edu , Assistant Professor Dr. DeLoris Hesse, hesse@uga.edu , Associate Professor
Course Title(s)	BIOL 2011L: Anatomy and Physiology I Laboratory BIOL 2012L: Anatomy and Physiology II Laboratory
Course Number(s)	BIOL 2011 L BIOL 2012 L
Final Semester of Instruction	Fall 2019
Average Number of Course Sections Per Year	BIOL 2011 L: 18 sections per year BIOL 2012L: 15 sections per year
Average Number of Students Per Course Section	24
Average Number of Students Per Summer Semester	48
Average Number of Students Per Fall Semester	372
Average Number of Students Per Spring Semester	372
Average Number of Students Per Year	792

Are you planning on using an OpenStax textbook?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
List the original course materials for students (including title, whether optional or required, & cost for each item)	<p>Amitrano, R. Laboratory Exercises In Anatomy and Physiology with Cat Dissections, 8e, required (\$150.00 + tax ABAC Bookstore)</p> <p>Allen. Fetal Pig Dissection: A Laboratory Guide 3e, required (\$22.70 +tax from ABAC Bookstore)</p>
Requested Amount of Funding	\$30,000.00
Original Per Student Cost	\$172.70 + tax
Post-Proposal Projected Per Student Cost	\$0
Projected Per Student Savings	\$172.70
Projected Total Annual Student Savings	<p>\$ 68,389.20 (Calculated from students only enrolled in BIOL 2011 L, or half the total number of students, because the 172.70 is a one time fee)</p>

NARRATIVE

1.1 TRANSFORMATION ACTION PLAN

This proposal is specifically aimed at significantly reducing the textbook costs for students enrolled in Anatomy and Physiology I and II at Abraham Baldwin Agricultural College (ABAC) through the use of Open Educational Resources (OERs). These OER texts or materials are located in the public domain or written with open copyright licenses and are available free of cost. This proposal targets all sections of Anatomy and Physiology I and Anatomy and Physiology II laboratories, a two-semester sequence of courses that are required in many professions and majors, including nursing, pharmacy, occupational therapy, sports medicine, and more. The current course materials cost students 172.70; transitioning to OER materials reduces that cost to \$0.00, saving ABAC students over \$68,000.00 in textbook costs each year.

The open educational source, Openstax compatible Anatomy and Physiology I and II lab manuals created by DeLoris Hesse et al. (2016) are succinct and thorough web interactive texts that can be used to guide student learning in Anatomy and Physiology lab courses. However, these manuals do not provide in class laboratory activities for the A&P student and cannot be used as a stand-alone resource at ABAC. The goal of this project is to create stand-alone open source Anatomy and Physiology I and Anatomy and Physiology II laboratory manuals that are compatible with ABAC's undergraduate anatomy and physiology curriculum. This goal will be accomplished by supplementation of the existing OpenStax Anatomy and Physiology Lab Manuals I and II, which include 34 sections, with the following:

- Addition of pre-lab student exercises
- Addition of in lab hands-on activities and laboratory exercises
- Addition of post-lab student exercises and questions
- Embedment of linked images into actual manual
- Addition of 5 new original anatomical illustrations
- Addition of fetal pig dissector instructions and dissection images
- Addition of Anatomy-in-Clay images and instructions
- Enhancements in formatting

The instructional redesign of the Anatomy and Physiology I and II laboratory manuals will be necessary for complete implementation of an open source lab manual in all sections of Anatomy and Physiology Laboratory at Abraham Baldwin Agricultural College, reducing the textbook costs for the student and providing a succinct yet thorough guide for lab activity that can be used alongside the Anatomy and Physiology OpenStax textbook, or independently of it. These lab manuals will provide an open access resource, which can be used as a stand-alone laboratory manual in A&P undergraduate courses across the state of Georgia and beyond.

A team representing the entire Anatomy and Physiology undergraduate program members at ABAC, and will transform the experience of students across many pre-health majors by

significantly and reduce the textbook costs associated with their program of study by creating an open lab text. This team consists of Drs. Leslie Pryor McIntosh, Marvin Holtz, Kingsley Dunkley, Heather Cathcart, and Andrew McIntosh. These team members serve as instructors of record for all the Anatomy and Physiology courses offered at ABAC and will write pre-laboratory and post-laboratory activities. Dr. DeLoris Wenzel Hesse is an Associate Professor of Anatomy and Embryology, coordinates all of the undergraduate sections of a similar course at the University of Georgia (enrollment in excess of 1000), and has transitioned all these UGA courses to OER resources. She will serve as a content expert for Anatomy and Physiology as well as consultant in the transformation process.

1.2 QUANTITATIVE AND QUALITATIVE MEASURES

Throughout the project, the Anatomy and Physiology faculty will evaluate the success of the project using both quantitative and qualitative measures. Quantitative data will be collected through comparison of student performance on laboratory assessments before and after the implementation of the OER materials. Withdrawal and failure rate will be calculated, as well as descriptive data for total cost savings based on enrollment during the implementation period.

Additionally, students will be surveyed about their perceptions of the new materials and thoughts about using the newly developed content. This student survey will include open-ended questions about their experiences that will be coded for themes. We will also conduct interviews and focus groups with students about their perceived quality and experiences, and analyze that feedback with the responses from the survey.

Finally, student data from ABAC and UGA will be compared to determine if there are substantive differences between these measures in students performance and satisfaction between these two universities.

1.3 TIMELINE

May 2018 – Submit transformation proposal – Receive award notification

Summer 2018 – Content evaluation of the OpenStax text begins; Beginning of development of accompanying lab text and writing/development

October 2018 – Kickoff meeting

December 2018 - Completion deadline of A&P I laboratory manual sections (1-21)

January 9, 2019 - Implementation of new manual in all ABAC A&P I courses

May 2019 - Completion of Student Satisfaction Survey at the end of the term and evaluation of student performance

May 2019 – Drs. Leslie McIntosh and DeLoris Hesse submit progress status report

June 2019 – Revision of A&P laboratory manual based upon student performance and qualitative results.

July 2019 – Completion deadline of A&P II laboratory manual sections 22-34

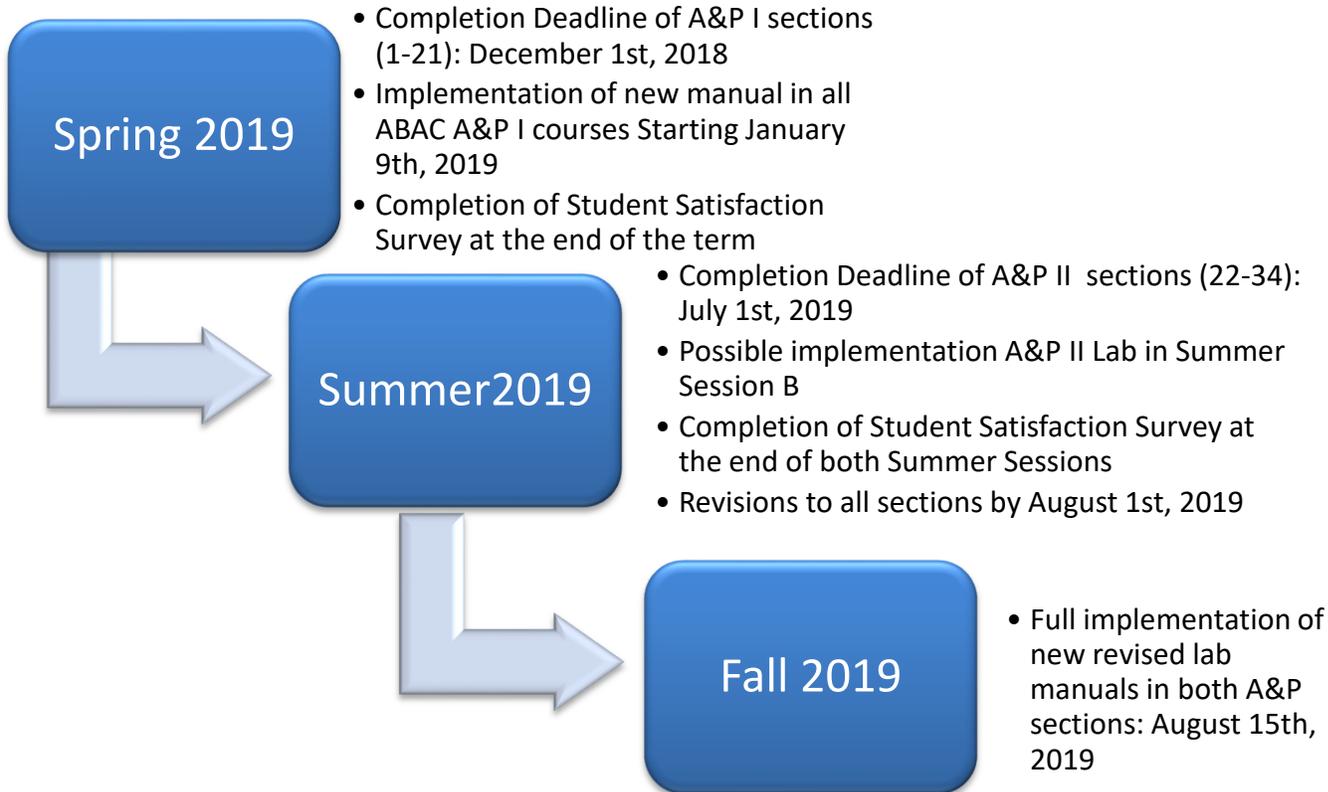
Summer session 2019 – Implementation of A&P II manual in summer session B and completion of Student Satisfaction Survey.

August 1 2019 – Revision and completion of all laboratory manual sections

Fall 2019 – Implementation of materials in all course and lab sections of A&P I and II

Fall 2019 – Collect data on student experiences and satisfaction

January 2020 – Drs. Leslie McIntosh and DeLoris Hesse submit final report of findings to ALG



1.4 BUDGET

Type	Personnel	Amount
Instructional Designers and Content Experts	Dr. Leslie Pryor McIntosh (PI)	\$ 4,646
	Dr. Marvin Holtz	\$ 4,646
	Dr. Kingsley Dunkley	\$ 4,646
	Dr. Heather Cathcart	\$ 4,646
	Dr. Andrew McIntosh	\$ 4,646
Consultant/Instructional Designer	Dr. DeLoris Hesse	\$ 4,200
Grant Kickoff meeting and Travel/Project Expenses	TBD	\$ 793
FICA(7.65%)		\$1777
Total		\$ 30,000

1.5 SUSTAINABILITY PLAN

All A&P laboratories at Abraham Baldwin Agricultural College will require the use of the resultant A&P laboratory manuals. These courses are both taught every semester, including summer, and will be for the foreseeable future. This lab text will be made available to all students through ABAC's course management system. The newly created lab text will also be hosted through GALILEO and available to distribution to other interested institutions.

All A&P Instructors of Record at ABAC will be required to serve on a Revision Committee for updates and maintenance. This committee will meet each Spring and Fall term within the 2 weeks following the lab final exam to discuss changes guided by student and instructor feedback. Feedback from other institutions will be collected through email by a course director/ Instructor of record and used to inform the revision committee of changes. Dr. Hesse will continue to provide assistance and collaborative support of the materials as needed.

Additional Information:

Expected activities for standard-scale and large-scale Textbook Transformation Grants include training in the chosen project resources, open licensing as necessary, any textbook creation or adaptation required, and course redesign as necessary for the transformation.

Other required activities:

- Institutional sign-off on Service Level Agreement (SLA) provided by the University System Office, using the project proposal as a statement of work
- Institutional invoice to USG along with the signed SLA in order for funds to be disbursed
- Attendance at a kickoff meeting (see timeline below) for at least two team members
- Completion of project status report for each semester of the implementation
- Completion of a final project report, including provision of data on impact on student success and a course schedule with resource links
- Any new works must be open-licensed under a [Creative Commons Attribution License \(CC-BY\)](#), with exceptions for modifications of materials with a more restrictive open license. Materials will be made accessible to the public through the [GALILEO Open Learning Materials repository](#).
 - This requirement does not include proprietary features of commercial authoring or homework platforms. Sharing quizzes, tests, and other student evaluations are optional.
- Participation as needed in ALG-related communications, including post-project surveys

Textbook Transformation Grants **do not work the same as federal or other external grants**. They are an allocation from the University System of Georgia to the institution in order to get the work on the application completed. Funds can cover faculty and staff time, including course release time, overload pay, and replacement coverage. Funds can also cover project expenses, including related department needs and travel expenses.

This funding structure, facilitated by a Service Level Agreement, allows for flexibility between institutions. Funding procedures largely rely on your institution so long as spending meets state guidelines. The proposing team must coordinate as necessary with their departments to determine how to handle the distribution. Textbook Transformation Grants should not cover indirect costs, as they are not external grants nor stipends to individual faculty.

Funds are released to the sponsoring institutional office in two parts: 50% on return of the USG-drafted Service Level Agreement (SLA) with the original or modified proposal serving as the statement of work, and 50% on submission of the final report.

Grants Timeline:

May 4 - May 20: Applications submitted

May 21: Administrative reviews

May 22: Award Notification Date

October 2018: Kickoff Meeting, Middle Georgia State University, date TBD

(For projects with a shorter timeline, an online kickoff meeting in the Summer can be arranged.)