New Course Form

For help filling out the form press F1 or look at the bottom of the screen. For additional instructions, see Course Form Instructions.	
Type of Action	**New Course – Course not previously offered.**

1. Catalog Prefix and Number*: **BTN 103**

2. Course Title: **Contextual Laboratory Language**

   Pilot Course Information:

   Are you requesting pilot status only at this time? Yes ☐ No ☒
   Implementation Date?

   Are you requesting pilot status in addition to regular approval process? Yes ☒ No ☐
   Implementation date? Fall or Spring? Spring Year? 2013

   Has this course been previously approved as pilot status Yes ☐ No ☒

3. Justification for requested action.

   A three-course contextualized and integrated curriculum is being developed to increase student diversity, retention and success in the Biotechnology Program. Contextual Science with Laboratory, Contextual Laboratory Language, and Contextual Laboratory Calculations, comprise an integrated, contextualized curricula of core concepts designed to ready underprepared students for the rigors of the biotechnology program.

4. Submitting Entity: Curriculum Committee:

   Or College: **BCTC**

5. Person(s) Primarily Responsible for Proposal **(Complete item only if course is not part of a curriculum package. Verify that members are still current and active prior to submission.)**:

Name	Teaching Area	College
Deborah Davis	**Biology, Biotechnology Biotechnology Coordinator**	**BCTC**
Tammy Liles	**Biology, Biotechnology Natural Sciences Asst. Dean**	**BCTC**
Greg Feeney	**Dean, Academic Support**	**BCTC**
Arion Jett	**Accelerating Opportunities**	**BCTC**
Sherry Godbey	**Transitional Studies Faculty**	**BCTC**
Mike Rayburn	**Adult Education**	**BCTC**
Brent Eldridge	**Chemistry**	**BCTC**
Molly Frisbie	**Biology**	**BCTC**
Tracy Knowles	**Chemistry**	**BCTC**
Norm Strobel	**Biology**	**BCTC**
Marilyn Akers	**Physics**	**BCTC**

Involvement of Others (Identify Individuals):

6. System Office Staff:

7. Others: **Synergy Collaboratory for Research, Practice, and Transformation (See Curriculum Development Form A800 *Biotechnology Laboratory Assistant Certificate* for explanation.)**

8. Is this course offered at other colleges? ☐ Yes ☒ No
   If yes, have they been involved in the development of this course? ☐ Yes ☐ No ☒ N/A

9. Is this course duplicative or similar to other courses offered by KCTCS? ☐ Yes ☒ No
   If yes, Justification:

10. Credit / Contact Hours: 10a. Semester Credit Hours: Minimum **3** Maximum **3**
    10b. Semester Contact Hours: **45** If lab, etc., ratio of contact hours to credit hours. (See contact/ credit hour ratio chart)

11. Grading Basis: ☒ Letter Grades ☐ Pass/Fail ☐ Letter Grades/No GPA

12. Repeat for additional credit: ☐ Yes ☒ No

If yes, complete the following:

Total credit earned in course: Total completions:

13. Open Entry – Open Exit: ☐ Yes ☒ No

14a. Components (Check all components that require scheduling. For each component that is checked, enter the credit hours and contact hours for each component that is checked.):

Component	Credit Hours	Contact Hours	Component	Credit Hours	Contact Hours
☒ Lecture	**3**	**45**	☐ Practicum		
☐ Laboratory			☐ Co-Op		
☐ Clinical			☐ Discussion		

OR

14b. Integrated Components (If components are integrated, and only one component (lecture or lab) needs scheduling, rather than both lecture and lab, complete this section.)

Lecture/ Lab	Lecture Credit	Lecture Contact	Lab Credit	Lab Contact

15. Requisites:

Pre-requisite	☐	Yes	☒	No	If yes, list:
Co-requisite	☒	Yes	☐	No	If yes, list: **BTN 100 and BTN 104**
Pre-requisite or Co-requisite	☐	Yes	☒	No	If yes, list:

16. Implementation Term (Course scheduled to begin, ex. Fall 2012): **Spring 2014**

17. Proposed Course Description (Course description as it will appear in the catalog. Begin each statement with a verb.):

Introduces students to basic scientific language and concepts of biotechnology. Academic study skills needed for success in bioscience courses will be emphasized. Topics parallel the concepts introduced in BTN 100 and BTN 104.

Course Proposal Rationale:

18. Will this course be a part of an approved curriculum/curricula? ☒ Yes ☐ No

If yes, which curriculum/curricula? **Biotechnology Laboratory Assistant**
(Submit a New Curriculum or Revision Form)

Course Competencies and Delivery:

19. Proposed Course Competencies/Student Outcomes *(If part of an organized curriculum, how does it relate to program competencies /outcomes?* ***Begin statement with a capital letter and end with a period.****):*

Upon completion of this course, the student can:

1. **Compose lecture notes during bioscience lectures.**
2. **Synthesize information from lecture notes and other readings for use on exams.**
3. **Use appropriate strategies to manage unknown vocabulary.**
4. **Integrate a variety of study skills to improve comprehension of science materials.**
5. **Create oral presentations.**
6. **Analyze job announcements.**
7. **Explain proper laboratory notebook documentation techniques.**

20. Course Outline *(Two-level outline required. Although courses may have more than two levels, the third level is not necessary.)*

I. Study skills for biosciences
   A. Effective note-taking
   B. Distinguishing main ideas form text
   C. Using the Internet to supplement text
II. Reading skills for biosciences
   A. Building background knowledge

B. Pre-reading, skimming, summarizing, and paraphrasing

III. Vocabulary skills for biosciences
   A. Root word meaning
   B. Prefixes, suffixes, and stems
   C. Guessing strategies

IV. Presentation skills
   A. Effective presentation criteria: eye contact, body language, voice, and timing
   B. Collecting and synthesizing information

V. Job search skills
   A. Understanding job announcements
   B. Planning for an interview
   C. Resumes and cover letters
   D. Predicting interview questions, and planning answers using biotechnology language
   E. Interview follow-up

VI. Integration and reinforcement of bioscience content with activities listed in I – V above.
   A. Lab notebooks
   B. Cell structure and function
   C. Genetics
   D. pH and buffers
   E. Macromolecules
   F. Aseptic technique

21. List of experiments/activities *(Courses with components other than lecture. e.g., laboratory, clinical, practicum, etc., must include a* ***sample*** *list of experiment topics or activities. Does not have to be all -inclusive.)*:

N/A

22. Indicate sample suggested classroom resources for course (Should not have publishing date greater than five years.)

SUGGESTED LEARNING RESOURCES FOR THIS COURSE

Reece, Taylor, Simon, Dicke. (2012) *Campbell Biology: Concepts and Connections (7th ed).* Pearson. ISBN: 0321696484 | ISBN-13: 978-0321696489

Yung, R. (2012) *Language Skills for Technicians.* City College of San Francisco. Digital download (www.bio-link.org).

22. Provide a rationale for using textbook/references older than five years.

23. May this course be used as an equivalent for other courses? **Yes** **No X**

If yes, please list.

Signatures: Complete and submit a signature page for every proposal.

*The System Office assigns new course numbers. Contact Mary Kleber at Mary.Kleber@kctcs.edu