Credential Adoption Information Form

1. Credential Title Bioinformatics

2. Credential Type (check all that apply)

   ☐ Associate Degree, Specify Click here to enter text.

   ☐ Degree Option

   ☒ Certificate

   ☐ Diploma

3. Proposed Implementation Date Fall 2013 Pilot; Spring 2014 Full

4. Estimate number of students earning this credential over the next 5 years

Year	2013	2014	2015	2016	2017
Students Earning Credential	5	10	10	10	10

How were these estimates calculated?

A survey of current biotechnology students who would enroll in courses if this credential was offered at BCTC. In addition, this credential may be offered to incumbent workforce in order to remain current in the every-changing field.

5. Will adoption of this credentials increase enrollment within the area/program?

   ◉ Yes

   ○ No

If yes, provide estimates of enrollment increases over the next 5 years

Year	2013	2014	2015	2016	2017
Full Time	5	5	5	5	5
Part Time	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

How were these estimates calculated?

This is the best estimate based on a survey currently enrolled students.

If no, explain.

Click here to enter text.

6. Will adoption of this credential increase personnel requirements?

   ◉ Yes

   ○ No

   If yes, provide estimates of changes to personnel requirements over the next 5 years

Year	2013	2014	2015	2016	2017
Full Time Faculty	0	0	0	0	0
Adjunct Faculty	4 hours	0	0	0	0
Support Staff	0	0	0	0	0

How were these estimates calculated?

The 2 new courses are 4 hours each. An industry expert has agreed to teach the classes at the regular adjunct per hour rate for the first year, and instruct faculty on emerging bioinformatics tools. Faculty will teach the courses in year 2 and beyond.

If no, explain how personnel requirements will be met.

7. Will adoption of this credential require additional classroom/laboratory space or facilities?

   ○ Yes

   ◉ No

If yes, provide estimates of changes to classroom/laboratory space or facilities requirements over the next 5 years

Year	2012-13		2013-14		2014-15		2015-16		2016-17	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Classrooms Required	1	1	1	1	1	1	1	1	1	1
Laboratories Required	0	0	0	0	0	0	0	0	0	0
Total Seats Required	12	24	24	24	24	24	24	24	24	24

Can the space requirements be met with existing space?

- (●) Yes
- ( ) No

If no, explain how space needs will be met?

Click here to enter text.

8. Will adoption of this credential result in increased expense requirements?

- ( ) Yes
- (●) No

If yes, estimate additional expense requirements for the next 5 years?

Year	0	0	0	0	0
Faculty	0	0	0	0	0
Supplies/Materials	0	0	0	0	0
Travel	0	0	0	0	0
Equipment/Furnishings	0	0	0	0	0
Professional Development	0	0	0	0	0
Accreditation Support	0	0	0	0	0
TOTAL	0	0	0	0	0

Identify sources of financial support, including BCTC funds, advisory committee contributions, grants, and other external funders.

No additional funds needed.

If no, explain.

Click here to enter text.

9. Describe the need for this program/credential. Include information on graduate demand on a local, state, and national level.

   Today's biotechnology companies depend on the ability of their employees to understand and use computational skills to handle large amounts of research data. In the state of Kentucky there are 93,000 life science jobs and there exists no bioinformatics training or educational program below the bachelor's level.

10. Are there additional circumstances that justify adopting this program/credential, such as grants, government mandates, or industry requests?

    The biotechnology advisory board requested more in-depth training of bioinformatics at the community college level.