Course Assessment Report Washtenaw Community College

| Discipline | Course Number | Title |
| :--- | :--- | :--- |
| Biology | 107 | BIO 107 06/26/2023- <br> Introduction to Field <br> Biology |
| College | Division | Department |
|  | Math, Science and <br> Engineering Tech | Life Sciences |
| Faculty Preparer | David Wooten |  |
| Date of Last Filed Assessment Report |  |  |

## I. Review previous assessment reports submitted for this course and provide the following information.

1. Was this course previously assessed and if so, when?

Yes
This course was assessed through Fall of 2016.
2. Briefly describe the results of previous assessment report(s).

The previous assessment report assessed three outcomes. All three outcomes had their measures of success met.
3. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

Although the three outcomes were successful, there was a recommendation to separate the individual parts of the midterm and final exams so that the identification portions and the essay portions could be assessed separately. Those changes were made and are reflected in the current assessment.

## II. Assessment Results per Student Learning Outcome

Outcome 1: Identify fungi, plant, and animal species common to specific Michigan habitats.

- Assessment Plan
- Assessment Tool: Exam questions
- Assessment Date: Fall 2017
- Course section(s)/other population: All
- Number students to be assessed: All students
- How the assessment will be scored: Answer key
- Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or higher on related exam questions.
- Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2022,2021,2019$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 61 | 46 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Some students dropped the course after a few weeks, did not complete the midterm/final exams, did not complete the field journal assignment, or stopped attending. These students do not accurately reflect the pedagogical efficacy of the course and were therefore not included in the analysis. Two of the 45 did not complete the final exam, but were included given they had completed the midterm and their field journal assignments.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only offered face-to-face (F2F) in the fall semesters. All students from the semesters analyzed (Fall 19, Fall 2021, Fall 2022) were used. Students from Fall 2020 were not used due to COVID and the modification of the course to go to a mixed-mode style. That was a "one-time" situation and does not reflect how this course is delivered or taught.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

To examine their knowledge on identification of Michigan species, the first part of the midterm exam has 25 identification questions (worth 25 pts ). This was used as
the metric for the assessment of this outcome in all semesters. Scores were compiled; any score of 17.5 pts ( $70 \%$ ) or higher was counted as a success, any lower as not meeting the standard of success.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes
36 out of 46 students scored a 17.5 or higher. That equals $78.3 \%$ of students earned a $70 \%$ or higher on this outcome. Therefore, the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Identification is often the most difficult part of this course for students given they represent long lists of sometimes unfamiliar species. Overall, I was pleased with $77.8 \%$ of the students meeting the standard of success but would obviously like to see that number higher.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Given that we don't always see every species they have to know in the field, and their field guides are only so helpful, I find that image galleries on our Blackboard site often help them to better recognize the species they're responsible to know. I will continue to improve these resources and find additional materials online.

Outcome 2: Discuss the biodiversity, ecology, and importance of terrestrial and aquatic ecosystems commonly found in Michigan.

- Assessment Plan
- Assessment Tool: Essay questions on final exam.
- Assessment Date: Fall 2017
- Course section(s)/other population: All
- Number students to be assessed: All students
- How the assessment will be scored: Departmentally developed rubric
- Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or better on related exam questions.
- Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2022,2021,2019$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 61 | 44 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Some students dropped the course after a few weeks, did not complete the midterm/final exams, did not complete the field journal assignment, or stopped attending. These students do not accurately reflect the pedagogical efficacy of the course and were therefore not included in the analysis. Two of the 45 did not complete the final exam, but were included given they had completed the midterm and their field journal assignments.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only offered F2F in the fall semesters. All students from the semesters analyzed (Fall 19, Fall 2021, Fall 2022) were used. Students from Fall 2020 were not used due to COVID and the modification of the course to go to a mixed-mode style. That was a "one-time" situation and does not reflect how this course is delivered or taught.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

To examine their knowledge on ecology and ecosystems, the second part of the final exam has several short answer/essay questions (worth 25 pts ). This was used as the metric for the assessment of this outcome in all semesters. Scores were compiled, any score of 17.5 pts ( $70 \%$ ) or higher was counted as a success, any lower as not meeting the standard of success.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes
36 out of 44 students scored a $17.5(70 \%)$ or higher on the final essay questions. This equals $81.8 \%$ of students scoring a $70 \%$ or higher. Therefore, the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Teaching in an outdoor environment can be difficult. Students often don't write down everything we see or interpret, they have to deal with weather, wind, rain, insects, etc. I was pleased that the standard of success was met, but would like to see students do better on this outcome. Given it's essay/short answer, it really allows them to display what they know, make connections, and show their level of understanding of natural systems.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

I spend the entire first class talking about how to be successful in an outdoor field course. I also provide study guides and give regular reminders while in the field. I will continue to improve and add resources, where available, to continue to help students improve in this area.

Outcome 3: Compare and contrast the seasonal changes (both biotic and abiotic) of a specified natural area of study throughout the course of the semester.

- Assessment Plan
- Assessment Tool: Journal entries
- Assessment Date: Fall 2017
- Course section(s)/other population: All
- Number students to be assessed: All students
- How the assessment will be scored: Departmentally developed rubric
- Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or higher on their final field journal grade.
- Who will score and analyze the data: Departmental faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2022,2021,2019$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 61 | 46 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Some students dropped the course after a few weeks, did not complete the midterm/final exams, did not complete the field journal assignment, or stopped attending. These students do not accurately reflect the pedagogical efficacy of the course and were therefore not included in the analysis. Two of the 45 did not complete the final exam, but were included given they had completed the midterm and their field journal assignments.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only offered F2F in the fall semesters. All students from the semesters analyzed (Fall 19, Fall 2021, Fall 2022) were used. Students from Fall 2020 were not used due to COVID and the modification of the course to go to a mixed-mode style. That was a "one-time" situation and does not reflect how this course is delivered or taught.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

To examine their knowledge on seasonal changes in a Michigan ecosystem, weekly field journal entries were used. There were 12 weeks of entries, at 10 pts per entry, totaling 120 pts. This was used as the metric for the assessment of this outcome in all semesters. Scores were compiled, any score of 84 pts (70\%) or higher was counted as a success, any lower as not meeting the standard of success.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this
learning outcome and indicate whether the standard of success was met for this outcome and tool.

## Met Standard of Success: Yes

41 out of 46 students earned an 84 ( $70 \%$ ) or higher on their journal entries. That equals $89.1 \%$ of students earned a $70 \%$ or higher. Therefore, the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The field journal assignment in this course is my favorite part. Students pick their own field location, spend several hours a week there, journal, and apply what they're learning in our weekly class. Their entries, drawings, and experiences are absolutely fantastic and many report back semesters later about how they still visit their site. I was very pleased to see that $89 \%$ of students met the standard of success.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

At this time I don't see a need for much change on this outcome. The most common reason why students don't do well on their field journals is they don't do them. I will continue to remind and support students so that they can have this experience and earn those points!

## III. Course Summary and Intended Changes Based on Assessment Results

1. Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

I found the changes to be very helpful and more insightful. Before, I wasn't able to tease apart how students were doing on identification vs. understanding questions. By separating the midterm and final into two grade columns and keeping those points separate, I find the information more informative and useful.
2. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

While there is always continued improvement in any course, I find that BIO 107 is meeting the requirements on the master syllabus, students are meeting the standards of success, and their qualitative feedback on the course has been immensely positive.
3. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

This information will be shared to the college via a Course Assessment Report and discussed at a future dept. meeting.
4.

Intended Change(s)

| Intended Change | Description of the <br> change | Rationale | Implementation <br> Date |
| :--- | :--- | :--- | :--- |
| No changes intended. |  |  |  |

5. Is there anything that you would like to mention that was not already captured?
6. 

## III. Attached Files

Grading Rubrics for Outcomes \#2 and \#3
Assessment Data BIO 107

| Faculty/Preparer: | David Wooten Date: 06/26/2023 |
| :--- | :--- |
| Department Chair: | Susan Dentel Date: 07/07/2023 |
| Dean: | Tracy Schwab Date: 07/12/2023 |
| Assessment Committee Chair: Jessica Hale Date: $11 / 22 / 2023$ |  |


| Discipline | Course Number | Title |
| :--- | :--- | :--- |
| Biology | 107 | BIO 107 05/28/2017- <br> Introduction to Field <br> Biology |
| Division | Department | Faculty Preparer |
| Math, Science and <br> Engineering Tech | Life Sciences | David Wooten |
| Date of Last Filed Assessment Report |  |  |

## I. Assessment Results per Student Learning Outcome

Outcome 1: Identify fungi, plant, and animal species common to specific Michigan habitats.

- Assessment Plan
o Assessment Tool: Exam questions
o Assessment Date: Fall 2017
o Course section(s)/other population: All
o Number students to be assessed: All students
o How the assessment will be scored: Answer key
o Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or higher on related exam questions.
o Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2016,2015,2014$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 76 | 66 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Out of the 76 students enrolled between the three sections assessed, 66 students completed all three assignments used in the three outcomes. Students were dropped from the sampling if they had completed one exam, but not the other or had completed the exams but not done the journal entries for outcome \#3. This was only ten students (many of whom did not finish the course, i.e. took one exam and dropped) and allowed me to get a better cross-section of the efficacy of the course for those students who attended and completed all of the course requirements.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only taught in the fall semester and only one face-to-face section if offered. Therefore, all students from all sections in all years (2014-2016) were assessed.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The exam used to assess outcome \#1 is a mid-term exam consisting of identification questions and short-answer. All short-answer questions have some component of identification. There are 50 questions total and a possible score of 50 pts. Exams are graded by instructor and inputted into $\mathrm{Bb} . \mathrm{Bb}$ data from all three years was compiled into an Excel spreadsheet and calculated accordingly. All grades from all students assessed from all 3 sections were pooled as one large data set.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

## Met Standard of Success: Yes

For outcome \#1, 49 out of 66 students scored a $70 \%$ or higher on the exam, giving a total of $74.2 \%$ scoring higher than a $70 \%$. The standard of success calls for $70 \%$ of students scoring a $70 \%$ or higher, thus the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Outcome \#1 is all about being able to identify different species of fungi, plants, and animals commonly encountered in Michigan habitats. Each class has a topic of focus (i.e. birds or wildflowers) and learning the identification of numerous species within that topic is a significant part of this course and field biology as a discipline. Likewise, the required field guides students are asked to purchase mostly relate to idenfication. Students overall do well in this part of the course and the fact that they met the standard of success is a good indicator that this part of the curriculum is acceptable and at an appropriate level.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Even though the standard of success was met, the midterm exam has essay questions that have a component of identification, but also portions relating to ecology and ecosystem dynamics. Therefore, some part of their exam score relates to information not directly related to identification. In the future, I want to separate out on Bb the part of the exam that deals with identification directly so that I can more accurately assess this outcome.

Outcome 2: Discuss the biodiversity, ecology, and importance of terrestrial and aquatic ecosystems commonly found in Michigan.

- Assessment Plan
o Assessment Tool: Essay questions on final exam.
o Assessment Date: Fall 2017
o Course section(s)/other population: All
o Number students to be assessed: All students
o How the assessment will be scored: Departmentally developed rubric
o Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or better on related exam questions.
o Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2015,2016,2014$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 76 | 66 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Out of the 76 students enrolled between the three sections assessed, 66 students completed all three assignments used in the three outcomes. Students were dropped from the sampling if they had completed one exam, but not the other or had completed the exams but not done the journal entries for outcome \#3. This was only ten students (many of whom did not finish the course, i.e. took one exam and dropped) and allowed me to get a better cross-section of the efficacy of the course for those students who attended and completed all of the course requirements.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only taught in the fall semester and only one face-to-face section if offered. Therefore, all students from all sections in all years (2014-2016) were assessed.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The exam used to assess outcome \#2 is a final exam consisting of identification questions and short-answer. All short-answer questions directly relate to biodiversity and ecology of either a terrestrial or an aquatic ecosystem. There are 50 questions total and a possible score of 50 pts. Unfortunately, 25 out of the 50 pts. on this exam relate to identification and do not directly relate to the outcome language. This will be addressed in the section regarding areas of improvement. Short-answer questions are generally 3-5 pts. each and are graded by a simple rubric. Exams are graded by instructor and inputted into Bb . Bb data from all three years was compiled into an Excel spreadsheet and calculated accordingly. All grades from all students assessed from all 3 sections were pooled as one large data set.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

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Met Standard of Success: Yes
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For outcome \#2, 50 out of 66 students scored a $70 \%$ or higher on the exam, giving a total of $75.8 \%$ scoring higher than a $70 \%$. The standard of success calls for $70 \%$ of students scoring a $70 \%$ or higher, thus the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Overall students do very well on this part of the course. Concepts in biodiversity, ecology, and the significance of these ecosystems in a larger picture are emphasized in each class regardless of topic. Students take notes throughout the class, are given readings, and are asked to apply this information to their individual study sites that relate to their journal entries (outcome \#3). The shortanswer questions on the final exam relate directly to these topics and cover a broad range of scenarios, ecosystems, species, etc. The fact that students met the standard of success is a good indicator that this part of the curriculum is acceptable and at an appropriate level.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Even though the standard of success was met, the final exam has identification questions (outcome \#1) in addition to questions relating to ecology and ecosystem dynamics. Therefore, some part of their exam score relates to information not directly related to biodiversity and ecology. In the future, I want to separate out on Bb these two parts of the exam so that I can more accurately assess this outcome.

Outcome 3: Compare and contrast the seasonal changes (both biotic and abiotic) of a specified natural area of study throughout the course of the semester.

- Assessment Plan
o Assessment Tool: Journal entries
o Assessment Date: Fall 2017
o Course section(s)/other population: All
o Number students to be assessed: All students
o How the assessment will be scored: Departmentally developed rubric
o Standard of success to be used for this assessment: 70\% of students will score a $70 \%$ or higher on their final field journal grade.
o Who will score and analyze the data: Departmental faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

| Fall (indicate years below) | Winter (indicate years <br> below) | SP/SU (indicate years <br> below) |
| :--- | :--- | :--- |
| $2015,2016,2014$ |  |  |

2. Provide assessment sample size data in the table below.

| \# of students enrolled | \# of students assessed |
| :--- | :--- |
| 76 | 66 |

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Out of the 76 students enrolled between the three sections assessed, 66 students completed all three assignments used in the three outcomes. Students were dropped from the sampling if they had completed one exam, but not the other or had completed the exams but not done the journal entries for outcome \#3. This was only ten students (many of whom did not finish the course, i.e. took one exam and dropped) and allowed me to get a better cross-section of the efficacy of the course for those students who attended and completed all of the course requirements.
4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This course is only taught in the fall semester and only one face-to-face section if offered. Therefore, all students from all sections in all years (2014-2016) were assessed.
5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Field journals are used to assess outcome \#3. Students are required to visit a selected location each week throughout the semester and record data relating to species identification, seasonal habitat change, ecosystem dynamics, and natural history observations. Each entry requires abiotic seasonal data (date, time, temp., precipitation, overall conditions), as well as those biotic factors previously mentioned. Illustrations and/or pictures are required for each journal entry as well. Each entry is worth 10 pts and is graded by a simple rubric based on minimum requirements of abiotic and biotic data, as well as quality of entry information. A total of 12 entries are required, thus 120 pts. total.
6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes
For outcome \#3, 60 out of 66 students scored a 70\% or higher on their total journal entry points, giving a total of $90.9 \%$ scoring higher than a $70 \%$. The standard of success calls for $70 \%$ of students scoring a $70 \%$ or higher, thus the standard of success was met.
7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

This is undoubtedly the strongest part of the course. Students thoroughly enjoy this assignment and invest a significant amount of time and energy into their journal entries. These entries are complicated and have strict guidelines to receive full credit. Often, I get more than enough material with each entry and students continue with their journals after the course has transpired. Given the high outcome success (90.9\%), I feel that this a good indicator that this part of the curriculum is acceptable and at an appropriate level.
8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Even though this part of the course is strong, I can make the rubric more defined/clear and offer students samples of entries that are acceptable. At this point, outcome \#1 and outcome \#2 require more attention and improvement.

## II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

Overall the needs of BIO107 students are being met. Three major areas (outcomes) of content are required: identification, biodiversity \& ecology, and individual observations on seasonal change via field journals. All three met their standard of success. However, outcomes \#1 and \#2 can be more accurately assessed if the exam portions relating to each outcome topic are separated out on Bb . In the future, I can further make the assessment more accurate by not dropping those students who did not complete all the necessary assignments for all three outcomes, but independently assess different number cohorts for each outcome. Also, even though the standard of 70\% was met, outcomes \#1 and \#2
were not as high (74.2\% and 75.8\% respectively) as compared to outcome \#3 and therefore they may warrant more attention from a pedagogical standpoint.
2. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

This information will be submitted in a course assessment report and shared with the biology faculty at a future departmental meeting.
3.

Intended Change(s)

| Intended Change | Description of the change | Rationale | Implementation Date |
| :---: | :---: | :---: | :---: |
| Assessment Tool | Midterm and final exam scores will be graded separately on Bb so that portions relating to identification (outcome \#1) and biodiversity/ecology (outcome \#2) can be more accurately assessed. | Midterm and final exam scores on Bb that were used for this assessment are currently grouped into one grade. However, the outcome language requires that these be separated to splice apart the part of that grade that related to each outcome. | 2017 |

4. Is there anything that you would like to mention that was not already captured?
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III. Attached Files

Assessment Data BIO107
Assessment Rubrics
Faculty/Preparer:
Department Chair:
David Wooten Date: 06/09/2017

Dean:
Anne Heise Date: 06/12/2017

Assessment Committee Chair: Michelle Garey Date: 08/31/2017

