| Discipline | Course Number | Title |
|---|---|---|
| Medical Billing and Coding | 220 | MBC 220 04/19/2019- Intermediate/Advanced Procedural Coding |
| Division | Department | Faculty Preparer |
| Health Sciences | Health Science | Sheryl Krey |
| 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?

    No

2.  Briefly describe the results of previous assessment report(s).

    3.

4.  Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

    5.

**II. Assessment Results per Student Learning Outcome**

Outcome 1: Perform complex hands-on encoding of procedures from narratives and other sources of information about patient care and treatment.

- Assessment Plan
    - Assessment Tool: Written exam
    - Assessment Date: Winter 2017
    - Course section(s)/other population: All sections
    - Number students to be assessed: All students
    - How the assessment will be scored: Answer Key/Checklist
    - Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

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 below) | SP/SU (indicate years below) |
|---|---|---|
| | 2018, 2017 | |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students in the class were assessed for this course.

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 was a face to face class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Using software scenarios during the exam, the student had to be able to accurately code descriptive medical problems, with the proper medical code using an ICD-10, CPT or HCPCS. This exam was based on knowledge of the medical terminology, medical codes and procedures.

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

Based on the scores of the exams for this assessment, 92% of the students scored 80% or better on the exam.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

> With the number of students who successfully passed this exam, it seems the students understood the logic being taught so they can further their education and continue their certification.

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.

> Currently, it appears that it may be an individual or two who could value from additional tutoring or one on one time. Additional resources could be provided to the student.

Outcome 2: Understand and apply principles of resource based relative value scale payment schemas and determine costs of physician work, practice expense and professional liability insurance.

- Assessment Plan

    o Assessment Tool: Practical exam

    o Assessment Date: Winter 2017

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Answer Key/Checklist

    o Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

    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 below) | SP/SU (indicate years below) |
|---|---|---|
| | 2018, 2017 | |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students were assessed for this course.

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 was a face to face class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

This course was assessed using an exam. Based on scenario samples, the students had to provide accurate medical and billing codes that would justify a payment by an insurance payer. The exam showed that the students understood the principles and had a strong knowledge of grouping values, along with being able to determine the time and cost of the physician. The student must be aware of the insurance payer guidelines and policies.

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

This information was gathered by using the students' exams. 96% of the students received an 80% or higher on their exam grade.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

It appears that the majority of the class had a good understanding of applying the payment schemas and cost determination to the proper codes for insurance reimbursement.

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.

It does not appear that additional improvement is needed in this area.


Outcome 3: Understand and apply ambulatory patient classifications and coding requirements for ambulatory surgery centers and services.

- Assessment Plan

- Assessment Tool: Written exam

- Assessment Date: Winter 2017

- Course section(s)/other population: All sections

- Number students to be assessed: All students

- How the assessment will be scored: Answer Key/Checklist

- Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

- 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 below) | SP/SU (indicate years below) |
|---|---|---|
|  | 2017, 2018 |  |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students in this course were assessed.

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 was a face to face class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The student had to demonstrate an understanding of applying ambulatory classifications and coding requirements for specific surgery centers and even services provided.  The exam provided scenarios and asked the students to provide the exact medical codes for the appropriate dollar value for reimbursement from the insurance payer.

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: <u>Yes</u> |
|---|
| Out of 24 students assessed, 23 scored 80% or above.  The number of students who received 80% or above was divided by the total number of students to gather the accurate percentage. |

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

| The students appeared to have sound knowledge of the coding requirements and patient classifications.  The outcome for this was very good. |
|---|

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.

| Instructor/Student one on one may prove beneficial as one or two students showed lower scores.  Suggestions to additional resources, chapter reviews and practice quizzes and exams would strengthen students' grades. |
|---|

Outcome 1: Perform complex hands-on encoding of procedures from narratives and other sources of information about patient care and treatment.

- Assessment Plan

    o Assessment Tool: Practical exam

    o Assessment Date: Winter 2017

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Answer Key/Checklist

    o Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

    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 below) | SP/SU (indicate years below) |
|---|---|---|
| | 2018, 2017 | |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students in this course were assessed.

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 was a face to face class in the evenings.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

In the practical exam, students used software with scenarios and examples to create sound medical codes.

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

92% of the students passed with success (75% or above) showing skills of accuracy and knowledge of the medical coding realm. The number of passing students was divided by the number of total students, to arrive at the overall passing percentage.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

With the number of students who successfully passed this exam, it seems the students understood the logic being taught so they can further their education and continue their certification.

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.

Currently, it appears that it may be an individual or two who could value from additional tutoring or one on one time. Additional resources could be provided to the student.

Outcome 2: Understand and apply principles of resource based relative value scale payment schemas and determine costs of physician work, practice expense and professional liability insurance.

- Assessment Plan

    o Assessment Tool: Written exam

    o Assessment Date: Winter 2017

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Answer Key/Checklist

    o Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

    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 below) | SP/SU (indicate years below) |
|---|---|---|
| | 2018, 2017 | |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students in the course were assessed.

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 was a face to face, evening course.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

> The written exam determined the knowledge of the students gained over the semester.  The students had to walk through the process with the application of principles and their understanding of the practice expense for the physician.

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: <u>Yes</u>
>
> 82% of the students passed with a score of 80% or better.  This percentage was taken from the students who have passed with an 80% or better and divided it by the total number of students.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

> It appears that the majority of the class had a good understanding of applying the payment schemas and cost determination to the proper codes for insurance reimbursement.

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.

> It does not appear that additional improvement is needed in this area.


Outcome 3: Understand and apply ambulatory patient classifications and coding requirements for ambulatory surgery centers and services.

- Assessment Plan
    - Assessment Tool: Practical exam
    - Assessment Date: Winter 2017
    - Course section(s)/other population: All sections
    - Number students to be assessed: All students
    - How the assessment will be scored: Answer Key/Checklist
    - Standard of success to be used for this assessment: 75% of students will score 75% or higher on exam.

   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 below) | SP/SU (indicate years below) |
|---|---|---|
| | 2017, 2018 | |

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

| # of students enrolled | # of students assessed |
|---|---|
| 24 | 24 |

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.

All students were assessed in this course.

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 was a face to face, evening course.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

This exam was a software simulation and provided the students with an understanding of where they stood in relation to their need for future coding skills.  The students needed to apply patient classifications and specific coding requirements for specific surgery centers.

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

96% of the students passed with an 80% or above.  The percentage was obtained by using the number of students that passed with an 80% or above and divided it by the total number of students.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The students appeared to have sound knowledge of the coding requirements and patient classifications.  The outcome for this was very good.

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.

Instructor/Student one on one may prove beneficial as one or two students showed lower scores.  Suggestions to additional resources, chapter reviews and practice quizzes and exams would strengthen students' grades.


## 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.

N/A

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?

This assessment showed that there were basically one or two students who fell just a little behind, maybe due to lack of interest.  Overall, student achievement was excellent.

3. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

If any changes need to be made, the information will be shared with the Director of the Department prior to any changes being implemented.

4.
Intended Change(s)

| Intended Change | Description of the change | Rationale | Implementation Date |
|---|---|---|---|
| Course Materials (e.g. textbooks, handouts, on-line ancillaries) | Provide additional worksheets with scenarios and examples which would assist the students with better outcomes. | It would be beneficial for the students if they were to complete the Practicode software as this prepares the students for the certification exam. | 2019 |

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

6.

## III. Attached Files

[MBC 220 Data](#)

| | | |
|---|---|---|
| **Faculty/Preparer:** | Sheryl Krey | **Date:** 04/25/2019 |
| **Department Chair:** | Rene Stark | **Date:** 04/26/2019 |
| **Dean:** | Valerie Greaves | **Date:** 05/03/2019 |
| **Assessment Committee Chair:** | Shawn Deron | **Date:** 06/25/2019 |