Southeast Missouri State University

Department of Management and Marketing

Course No.: HA540

Title of Course: Healthcare Informatics

New: Spring 2014

I. Catalog Description and Credit Hours of Course:
An introduction to information technology as it is applied to health care and health related organizations. An examination of how information is captured, converted and stored in machine readable form and used in the various facets of the health care system; the impact of Electronic Medical Record (EMR) and mobile computing on the healthcare system. (3)

II. Prerequisite(s): MI375 with a minimum grade of ‘C’ and either MG301 or HA300 with a minimum grade of “C” or consent of department chair.

III. Purposes or Objective of the Course:
A. Use health informatics terminology and discuss health informatics concepts
B. Identify and describe information-based health management processes
C. Discuss the role of health systems in clinic decision making
D. Discuss HIPAA guidelines and regulations
E. Discuss coding schemes and their implications for data management
F. Identify information privacy and security vulnerabilities and their solutions

IV. Student Learning Outcomes (Minimum of 3)

Upon completion of this course students should be able to:
A. Discuss health informatics concepts and terminology;
B. Identify and evaluate process support systems;
C. Identify and resolve healthcare system vulnerabilities;
D. Discuss healthcare coding and HIPAA as it relates to healthcare system informatics.

V. Expectations of Students:
A. Demonstrate an understanding of healthcare system informatics, health system terminology, process support systems, decision support systems, coding, HL7, HIPAA, security and safeguards.
B. Spend sufficient time outside of class preparing for class and completing assignments.
C. Attend all class meetings. Participate in class discussion and problem presentation. Advance preparation is necessary. Students are expected to read and study the text in detail. Students are responsible for all assigned material.
D. Complete a significant research project/paper if enrolled for graduate credit

VI. Course Content or Outline:

A. Introduction to Health Systems Informatics 3 hrs
B. Biomedical Vocabulary and Standards 6 hrs
C. Selection and Implementation of EMR Systems 6 hrs
D. Evidence-based Clinical Decision Making 3 hrs
E. Clinical Decision Support 3 hrs
F. Clinical Work Processes 3 hrs
G. Knowledge-based Clinical Decision Making 2 hrs
H. Predictive Analytics 3 hrs
I. E-Health and Consumer Health Informatics 5 hrs
J. Health Information Privacy and Security 4 hrs
K. Enterprise Information Technology Architecture 3 hrs
L. Exams 4 hrs
VII.  Textbook(s) and/or Other Required Materials or Equipment:


VIII. Basis for Student Evaluation

A. Performance on scheduled exams
B. Performance on group project
C. Performance on case assignments
D. Performance on final paper
E. Performance in class discussions

IX. Grading Scale

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100% = A</td>
<td>90 – 100% = A</td>
</tr>
<tr>
<td>80 – 89.99% = B</td>
<td>80 – 89.99% = B</td>
</tr>
<tr>
<td>70 – 79.99% = C</td>
<td>70 – 79.99% = C</td>
</tr>
<tr>
<td>60 – 69.99% = D</td>
<td>&lt;70% = F</td>
</tr>
<tr>
<td>&lt;60% = F</td>
<td></td>
</tr>
</tbody>
</table>

The weight of the evaluation criteria may vary according to each instructor and will be communicated at the beginning of the semester.

X. Academic Policy Statement:
Students will be expected to abide by the University Policy for Academic Honesty regarding plagiarism and academic honesty. Refer to: [http://www6.semo.edu/judaffairs/code.html](http://www6.semo.edu/judaffairs/code.html)

XI. Student with Disabilities Statement:
If a student has a special need addressed by the Americans with Disabilities Act (ADA) and requires materials in an alternative format, please notify the instructor at the beginning of the course. Reasonable efforts will be made to accommodate special needs.