Course Inventory Change Request

Date Submitted: 02/02/15 4:52 pm

Viewing: MLS 1123: Principles of Hematology and Hemostasis

Last edit: 02/10/15 11:58 am

Changes proposed by: vhughes

Catalog Pages
referencing this course

In Workflow
1. MLS Chair
2. HSC Admin
3. HSC Dean
4. University Curriculum Committee Chair
5. Banner

Approval Path
1. 02/06/15 10:22 am Virginia Hughes (vhughes): Approved for MLS Chair
2. 02/06/15 11:00 am Colleen Hales (hales): Rollback to MLS Chair for HSC Admin
3. 02/10/15 10:51 am Virginia Hughes (vhughes): Approved for MLS Chair
4. 02/10/15 11:03 am Colleen Hales (hales): Approved for HSC Admin
5. 02/10/15 11:58 am Carole Grady (grady): Approved for HSC Dean

Associate of Applied Science in Medical Laboratory Science
Bachelor of Science in Medical Laboratory Science

Other Courses
referencing this course
In The Catalog Description:

MLS 2211 : Clinical Chemistry I  
MLS 2212 : Clinical Microbiology I  
MLS 2215 : Prin of Immunohematology  
MLS 2256 : Clinical Practice Internship

As A Banner Prerequisite:

MLS 2211 : Clinical Chemistry I  
MLS 2212 : Clinical Microbiology I  
MLS 2215 : Prin of Immunohematology  
MLS 2256 : Clinical Practice Internship

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<th>Course Prefix:</th>
<th>MLS</th>
<th>Course Number:</th>
<th>1123</th>
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<td>Effective Semester:</td>
<td><strong>Spring 2016</strong></td>
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<td>Department:</td>
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<td>Course Title:</td>
<td>Principles of Hematology and Hemostasis</td>
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<td>Prin of Hematology/Hemostasis</td>
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<td>Repeatable for Credit:</td>
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| Schedule Type: | **Combined**  
**Lecture/Lab** |
| Hrs/Wk: | 5 |
| Catalog Prerequisites? | Yes |
| Catalog Prerequisites: |  
MLS 1113. |
| Grade Required on | N/A |
Prerequisite(s):

Corequisites? No

Course/Lab Fee? Yes- No

Course/Lab Fee Amount: 500-250

Fee Deposit Index Code: HEA320

Fee Justification: Cover significant increasing cost of laboratory reagents and test kits for the course.

Instruction Index Code: HEA217

GE Status Requested: No

Catalog Description
Fundamental theories of hematopoiesis, hemostasis, routine laboratory evaluation of blood components using standard instrumentation and microscopic methods. Quality control is also discussed. Instrumentation, anemias, leukemias, and blood cell morphology are covered. Laboratory section will focus on hematology and coagulation tests using both manual and automated methods.

Course Rotation:
Spring (every)

Justification for course/change: increase lab fees

Library Resources Adequate: Yes

Tech Resources Adequate: Yes

Course Learning Outcomes:
1. Operate a hematology analyzer
2. Explain, perform, and interpret manual and automated hematology lab testing including QC and basic troubleshooting
3. List normal values for blood parameters
4. Discuss the pathophysiology of various disease states and their associated lab findings by evaluating red cell, platelet, and leukocyte morphology and maturation, identification of abnormal cells in the bone marrow and peripheral blood
5. Evaluate the acceptability of patient results based on quality control, disease state, and history
6. Evaluate specimens to determine suitability for requested testing
7. Relate lab values to various disease states
8. Practice standard precautions.

How do your Course Learning Outcomes align to your Program Learning Outcomes?

Operate a hematology analyzer aligns with PLO4 (operate equipment properly performing preventive maintenance, identifying problems and taking corrective action)

Explain, perform, and interpret manual and automated hematology lab testing including QC and basic troubleshooting aligns with PLO6 (use quality assurance to monitor procedures, equipment, assays and technical competency within predetermined limits)

List normal values for blood parameters aligns with PLO5 (demonstrate knowledge of hematology and coagulation)

Discuss the pathophysiology of various disease states and their associated lab findings by evaluating red cell, platelet, and leukocyte morphology and maturation, identification of abnormal cells in the bone marrow and peripheral blood aligns with PLO5 (demonstrate knowledge of hematology and coagulation)

Evaluate the acceptability of patient results based on quality control, disease state, and history aligns with PLO3 (evaluate and interpret lab test data while recognizing factors that affect procedures and results correlating lab data to disease processes)

Evaluate specimens to determine suitability for requested testing aligns with PLO3 (evaluate and interpret lab test data while recognizing factors that affect procedures and results correlating lab data to disease processes)

Relate lab values to various disease states aligns with PLO3 (evaluate and interpret lab test data while recognizing factors that affect procedures and results correlating lab data to disease processes)

Practice standard precautions aligns with PLO1 (safely handle biological specimens and other substances for analysis adhering to standard precautions and regulatory guidelines)

Schedule of lesson activities that meet Course Learning Outcomes

lectures, student labs, case studies, lecture exams, lab practicals

Assessment activities that provide evidence of student learning
Four lecture exams, two lab practicals, one final exam.

Course Reviewer
Comments

dwade (02/02/15 11:39 am): Rollback: Virginia asked for rollback
hales (02/06/15 11:00 am): Rollback: Carole would like the Outcomes sections filled out