Course Inventory Change Request

Date Submitted: 02/10/15 10:27 am

Viewing: MLS 3323: Adv Hematology/Hemostasis

Last edit: 02/10/15 10:42 am

Changes proposed by: vHughes

Catalog Pages
referencing this course

Bachelor of Science in Medical Laboratory Science

<table>
<thead>
<tr>
<th>Course Prefix:</th>
<th>MLS</th>
<th>Course Number:</th>
<th>3323</th>
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<tbody>
<tr>
<td>Effective Semester:</td>
<td>Spring 2016</td>
<td></td>
<td></td>
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<tr>
<td>Department:</td>
<td>Medical Laboratory Science (MLS)</td>
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<td>School:</td>
<td>School of Health Sciences</td>
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<tr>
<td>Course Title:</td>
<td>Adv Hematology/Hemostasis</td>
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<td>Short Course Title:</td>
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<td>Credits:</td>
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<tr>
<th><strong>Workload Factors:</strong></th>
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<tbody>
<tr>
<td><strong>Primary Grade Type:</strong></td>
<td>Standard Letter</td>
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<td><strong>Instructor Permission Required:</strong></td>
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<td><strong>Repeatable for Credit:</strong></td>
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<td><strong>Catalog Prerequisites?</strong></td>
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**Catalog Prerequisites:**

Admission to the Dixie State University Bachelor of Science Program in Medical Laboratory Science.

Grade Required on Prerequisite(s): N/A

**Corequisites?**

No

**Course/Lab Fee?**

Yes

**Course/Lab Fee Amount:** 500-250

**Fee Deposit Index Code:** HEA320

**Fee Justification:**

*Fee increase for significant increased cost of reagents and test kits for lab component.*

**Instruction Index Code:** HEA217

**GE Status Requested:** No

**Catalog Description**

Required course for students in the Bachelor of Science program in Medical Laboratory Science. Students will correlate hematology and hemostasis parameters and patient history with related disease processes. Theory and methodology will also be covered.
Course Rotation:
Spring (every)

Justification for course/change:
lab fee for hematology reagents

Library Resources Adequate: Yes
Tech Resources Adequate: Yes

Course Learning Outcomes:
1. Describe the composition, functions, and interactions of platelets with other hemostatic factors in the cycle to maintain hemostasis
2. Define and differentiate primary from secondary hemostasis
3. Cite four physiological mechanisms which decrease blood flow
4. Describe the composition, origin, and function of the coagulation factors
5. Perform a mixing study
6. Perform a D-dimer test
7. List and describe diseases related to decreased platelet production causing thrombocytopenia
8. Identify current anticoagulation therapy and how the lab aids in monitoring therapy
9. Compare and contrast Hodgkins and non-Hodgkins lymphoma
10. Perform a manual white blood cell count differential with red cell morphology evaluation
11. Compare and contrast sickle cell anemia and hemoglobin SC disease
12. Analyze samples and quality control on a hematology analyzer
13. Practice standard precautions
14. Correlate hematology and coagulation data to disease processes

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

Describe the composition, functions, and interactions of platelets with other hemostatic factors in the cycle to maintain hemostasis aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Define and differentiate primary from secondary hemostasis aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Cite four physiological mechanisms which decrease blood flow aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Describe the composition, origin, and function of the coagulation factors aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Perform a mixing study and D-dimer aligns with PLO2 (Perform accurate lab testing of body fluids, cells and other substances)
List and describe diseases related to decreased platelet production c Identify current anticoagulation therapy and how the lab aids in monitoring therapy causing thrombocytopenia aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Compare and contrast Hodgkins and nonHodgkins lymphoma aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Perform a manual white blood cell count differential with red cell morphology evaluation aligns with PLO2 (Perform accurate lab testing of body fluids, cells, and other substances)
Compare and contrast sickle cell anemia and hemoglobin SC disease aligns with PLO6 (demonstrate knowledge of hematology and coagulation)
Analyze samples and quality control on a hematology analyzer aligns with PLO5 (Operate equipment properly, performing preventive maintenance, identifying problems and taking corrective action within predetermined limits, PLO7(use quality assurance to monitor procedures, equipment, assays, and technical competency), PLO2 (perform accurate lab testing on body fluids)
Practice standard precautions (PLO1) safely handle biological specimens and other substances for analysis adhering to standard precautions and regulatory guidelines
Correlate hematology and coagulation data to disease processes aligns with PLO3 (evaluate and interpret test data correlating values to disease processes)

Schedule of lesson activities that meet Course Learning Outcomes
lectures, students labs, case studies, lecture exams, lab practicals

Assessment activities that provide evidence of student learning
Six lecture exams, one final exam, two lab practicals, one case study presentation

Course Reviewer Comments
dwade (02/02/15 11:40 am): Rollback: Virginia asked for rollback
dwade (02/10/15 9:42 am): Rollback: DW made changes to workflow and require a rollback. Pls resubmit.

Key: 976