Course Inventory Change Request

Date Submitted: 02/10/15 9:54 am

Viewing: **MLS 2215: Prin of Immunohematology**

Last edit: 02/10/15 11:59 am

Changes proposed by: vhughes

Catalog Pages referencing this course

**Associate of Applied Science in Medical Laboratory Science**

**Bachelor of Science in Medical Laboratory Science**

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<th>Course Prefix:</th>
<th>MLS</th>
<th>Course Number:</th>
<th>2215</th>
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<td>Effective Semester:</td>
<td><strong>Spring 2016</strong></td>
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<tr>
<td>Department:</td>
<td>Medical Laboratory Science (MLS)</td>
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<td>School:</td>
<td><strong>School of Health Sciences</strong></td>
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<td>Course Title:</td>
<td>Prin of Immunohematology</td>
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<td>Short Course Title:</td>
<td>Prin of Immunohematology</td>
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In Workflow

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

Approval Path

1. 02/10/15 11:04 am
   Virginia Hughes (vhughes): Approved for MLS Chair
2. 02/10/15 11:05 am
   Colleen Hales (hales): Approved for HSC Admin
3. 02/10/15 11:59 am
   Carole Grady (grady): Approved for HSC Dean
| Credits: | 4 |
| Workload Factors: | 4.5 |
| Primary Grade Type: | Standard Letter |
| Secondary Grade Type: | |
| Instructor Permission Required: | No |
| Repeatable for Credit: | No |
| Schedule Type: | Combined Lecture/Lab Lecture |
| Hrs/Wk: | 5 |
| Catalog Prerequisites? | Yes |

**Catalog Prerequisites:**

- Admission to the AAS Program in Medical Laboratory Science; AND MLS 1113 AND MLS 1123.

- 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:**

Cover significant increasing costs of laboratory reagents and test kits for course.

| Instruction Index Code: | HEA217 |
| GE Status Requested: | No |
| Catalog Description |

Covers the theory and principles of immunohematology relevant to blood group serology, antibody detection and identification, compatibility testing, component preparation and therapy in blood.
transfusion service, quality control, donor screening and phlebotomy, transfusion reactions and hemolytic disease of the newborn.

Course Rotation:
Spring (every)

Justification for course/change:
funds for lab kits, reagents, and supplies

Library Resources Adequate: Yes
Tech Resources Adequate: Yes

Course Learning Outcomes:
1. Perform an ABO and Rh blood type
2. Cite donor requirements for autologous, directed, and allogeneic donation
3. Define apheresis
4. Compare and contrast febrile nonhemolytic transfusion reaction, acute hemolytic transfusion reaction, delayed hemolytic transfusion reaction, and TRALI
5. List quality control criteria for random donor platelets, single donor platelets, irradiated red blood cells, leukocyte reduced red blood cells, granulocytes, fresh frozen plasma, and cryoprecipitate
6. Describe warm autoimmune hemolytic anemia
7. Perform quality control on blood bank reagents
8. Perform a fetal screen
9. Perform red cell phenotyping
10. Decide which type of blood to transfuse based upon patient typing
11. Practice universal precautions in the laboratory

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

Perform an ABO and Rh type aligns with PLO2 (perform accurate lab testing of body fluids, cells and other substances)
Cite donor requirements for autologous, directed, and allogeneic donation aligns with PLO5 (demonstrate knowledge of blood banking)
Define apheresis aligns with PLO5 (demonstrate knowledge of blood banking)
Compare and contrast febrile nonhemolytic transfusion reaction, acute hemolytic transfusion reaction, delayed hemolytic transfusion reaction, and TRALI aligns with PLO5 (demonstrate knowledge of blood banking)
List quality control criteria for random donor platelets, single donor platelets, irradiated red blood cells, leukocyte reduced red blood cells, granulocytes, and fresh frozen plasma, and cryoprecipitate aligns with PLO5 (demonstrate knowledge of blood banking)
Describe warm autoimmune hemolytic anemia aligns with PLO5 (demonstrate knowledge of blood banking, perform quality control on blood bank reagents aligns with PLO6 (use quality assurance to monitor procedures, equipment, assays)
Perform a fetal screen aligns with PLO2 (perform accurate lab testing of body fluids)
Perform red cell phenotyping aligns with PLO2 (perform accurate lab testing of body fluids)
Decide which type of blood to transfused based upon patient typing aligns with PLO3 (evaluate and interpret lab test data)
Practice universal precautions in the lab aligns with PLO1 (safely handle biological specimens)

Schedule of lesson activities that meet Course Learning Outcomes

**Lectures, students labs, lecture exams, lab practicals, case studies**

Assessment activities that provide evidence of student learning

**Four lecture exams, one final exam, two lab practicals, one case study presentation**

Course Reviewer Comments

dwade (02/02/15 11:39 am): Rollback: Virginia asked for rollback
dwade (02/10/15 9:41 am): Rollback: DW made changes and require a rollback.