University of Connecticut  
Department of Allied Health Sciences  
Diagnostic Genetic Sciences Major  
Plan of Study: Catalog year 2014-2015

Name: _________________________________________________  EMPL # (Peoplesoft #): ___________  Date of Admission: __________  Catalog year: ___________

General Education Requirements: Students are expected to meet the University General Education Requirements. Please refer to the general education audit sheet on the back of this form. It is the student’s responsibility to meet general education and program requirements. Refer to the University general catalog for course titles and descriptions.

Major Requirements: Students are required to complete a minimum of 120 credits to graduate to include general education courses, professional courses and related courses as indicated below. Remaining credits will be used as elective credits to meet the 120 credit rule. Students must complete 2000-level or above coursework to constitute their professional coursework as listed in groups A, B, & C below. All professional courses must be completed with a grade of “C” or better. Professional courses may ONLY be repeated once for a total of two times. * Students should consult with their academic advisor to be sure that both program and university general education requirements are met *

A. Completion of required Diagnostic Genetic Sciences (DGS) major courses:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGS 3222</td>
<td>Medical Cytogenetics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>DGS 3223</td>
<td>Laboratory in Cytogenetics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DGS 3225</td>
<td>Chromosome Imaging</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>DGS 4224</td>
<td>Cancer Cytogenetics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DGS 4234W</td>
<td>Diagnostic Molecular Technologies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DGS 4235</td>
<td>Laboratory Molecular Diagnostics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DGS 4246</td>
<td>Contemporary Issues in Human Genetics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DGS 4248</td>
<td>Advanced Karyotyping &amp; Report Writing</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Molecular Concentration:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGS 4501</td>
<td>Specimen Processing</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DGS 4502</td>
<td>Nucleic Acid Isolation</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>DGS 4503</td>
<td>Amplification Methods</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>DGS 4550 or 4997</td>
<td>Research in Molecular Genetics</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>or 4997</td>
<td>Honors Research (honors students only)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following: DGS 4510, 4511, 4512, 4513, 4514, 4515

DGS _________       | 2       |

Cytogetics Concentration:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGS 4701</td>
<td>Peripheral Blood Cytogenetics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>DGS 4702</td>
<td>Prenatal Cytogenetics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>DGS 4703</td>
<td>Bone Marrow Cytogenetics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>DGS 4712</td>
<td>Practicum in FISH</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DGS 4713</td>
<td>Practicum in Imaging &amp; Staining</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>DGS 4750 or 4997</td>
<td>Research in Cytogenetics</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>or 4997</td>
<td>Honors Research (honors students only)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total credits for graduation (120 required): _________________

Student Signature  Date

B. Completion of Allied Health (AH) major courses required:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH 2001</td>
<td>Medical Terminology</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>AH 3121</td>
<td>Immunology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AH 4241</td>
<td>Research for the Health Professional</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>AH 4244</td>
<td>Management for the Health Professional</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

C. Completion of Molecular and Cell Biology (MCB) major courses required:

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 2400 or 2410</td>
<td>Human Genetics/Genetics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MCB 2610</td>
<td>Microbiology</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

D. Completion of Related Math and Science courses required (may also meet general education requirements):

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course Title</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1107</td>
<td>General Biology I</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1124Q or 1127Q</td>
<td>General Chemistry I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1125Q or 1128Q</td>
<td>General Chemistry II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 2241 or 2443</td>
<td>Organic Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1040Q, 1060Q, 1125Q or higher</td>
<td>Algebra/Pre-calculus or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 1000Q or 1100Q</td>
<td>Statistics</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

☐ Preliminary plan of study  ☐ Final plan of study
This plan of study is not considered a final plan of study unless all signatures are completed.

Advisors Signature  Date  Department Head’s Signature  Date

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DEPARTMENT OF ALLIED HEALTH SCIENCES  
GENERAL EDUCATION REQUIREMENTS 2014-2015

Name: ________________________________________________________   EMPL # (Peoplesoft #): ___________________   Catalog year: _____________

NOTE: To satisfy general education requirements, courses must be selected from the general education menu as listed in the University catalog. Refer to the University general catalog for course titles and descriptions.

### CONTENT AREAS:
(courses in groups 1-3 MUST be from 6 different academic departments)

<table>
<thead>
<tr>
<th>Content Areas</th>
<th>Courses</th>
<th>Semester / Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group I</strong></td>
<td>ARTS and HUMANITIES: 6 credits required; not more than three credits from one department</td>
<td>___________</td>
</tr>
<tr>
<td><strong>Group II</strong></td>
<td>SOCIAL SCIENCES: 6 credits required; not more than three credits from one department</td>
<td>___________</td>
</tr>
<tr>
<td><strong>Group III</strong></td>
<td>SCIENCE AND TECHNOLOGY: Two courses. One MUST be a laboratory course. The following program requirements also meet this general education category: BIOL 1107; CHEM 1124Q &amp; 1125Q or CHEM 1127Q &amp; 1128Q</td>
<td>Lab course:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science course:</td>
</tr>
<tr>
<td><strong>Group IV</strong></td>
<td>DIVERSITY AND MULTICULTURALISM: 6 credits required. One course must address issues of diversity or multiculturalism outside the United States. 3 credits may also meet requirements in groups 1-3 Does course overlap? NO YES if yes…..Group: 1 2 3 Course:________________________</td>
<td>International:</td>
</tr>
</tbody>
</table>

### COMPETENCIES:

<table>
<thead>
<tr>
<th>Competencies</th>
<th>Courses</th>
<th>Semester / Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SECOND LANGUAGE:</strong> 3rd year level high school in a single foreign language OR One year (2 semesters) of college-level study</td>
<td>☐ Check if met in high school</td>
<td>Language:___________</td>
</tr>
</tbody>
</table>

**QUANTITATIVE**: two "Q" courses. One of the Q courses must be from mathematics or statistics. The following program requirements also meet this general education category: MATH 1040Q or 1060Q or 1125Q (or above); STAT 1000Q or 1100Q |Q Stat 1000Q or 1100Q |_______|

**WRITING**:  
A) ENGLISH 1010 OR 1011 (ENGL 1002 & 1003, or ENGL 3800 can also satisfy this requirement). B) Two "W" courses, one of which must be a course in the major. Writing in the major course: DGS 4234W |ENGL 1010 or 1011 |_______|
|W (major) DGS 4234W |_______|

**COMPUTER TECHNOLOGY**: Students meet competency by meeting university entry requirements

**INFORMATION LITERACY**: Students meet competency by meeting university entry requirements