CEHLS Planning Meeting

July 29, 2013

University of Liberia
Conference Room, Administration Building
9:30 AM – 1:30 PM
FY 2013 (Quarters 3 and 4)

- 12 workshops on curriculum development completed
- Curriculum development teams in Biology and Chemistry developed new four-year curricula for these BSc degree programs
- Biology developed syllabi for a new, two semester course series: Biology 105 and 106
- A new freshman biology lab course developed: Biology 111
- Basic lab/instructional equipment delivered and set up
- Lab instructors mentored in use of equipment
- Faculty teaching resource center established at Fendall
Major Changes Made in the Core Undergraduate Life Science Curriculum

- New freshman, two-semester survey of biology series (BIOL 105 and BIOL 106) with appropriate emphasis on cell biology, molecular biology, evolutionary biology, and ecology in addition to aspects of public health biology relevant to Liberia.
- Three new sophomore classes: molecular & cell biology, public health, and a seminar course to enable students to explore career possibilities and pathway emphasis.
- Five pathways, including: Medical Sciences, Plant Sciences, Microbiology, Environmental Sciences, and Science Education. This eliminates the need for zoology major.
- New strategy for biology and chemistry lab courses: one lab course for each year of the BSc major, taken either in the first semester or the second semester of a given academic year;
- Modification of the Biology course series for non-majors, (BIOL 101 and BIOL 102) to serve as a developmental or remedial course for those students who desire to be biology majors but are unprepared to do so.
## Curriculum Development – the New Biology Curriculum

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>General Core Courses</th>
<th>Science Core Courses</th>
<th>Major Courses</th>
<th>Pathway/Concentration/Minor Courses</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ENGL 101 FREN 101</td>
<td>MATH 107 Pre-Calculus</td>
<td>BIOL 105 General Biology I</td>
<td>1st year lab BIOL 111</td>
<td>ROTC 101</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CHEM 101</td>
<td>BIOL 106 General Biology II</td>
<td>1st year lab BIOL 111</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>ENGL 102 FREN 102</td>
<td>MATH 201 Calculus I</td>
<td>BIOL 205 Molec Bio</td>
<td>2nd year lab BIOL 211</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CHEM 102</td>
<td>BIOL 201 Organic Chem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ENGL 201 SOCS 102</td>
<td>MATH 203 Intermed. Applied Statistics</td>
<td>BIOL 204 Public Health Biology</td>
<td>2nd year lab BIOL 211</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BIOL 207 Sophomore Seminar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>ENGL 202 SOCS 201</td>
<td>PHYS 105 PHYS 111</td>
<td>BIOL 301 medical micro / BIOL 302 plant physiol</td>
<td>3rd year lab BIOL 311</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BIOL 303 other mol biol / BIOL 305 ab mol biol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>PHYS 105 PHYS 111</td>
<td>BIOL 310 Biochem</td>
<td>BIOL 304 parasitology / BIOL 405 ecol bot WAM</td>
<td>4th year lab BIOL 411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PHIL 300 PHYS 106</td>
<td>BIOL 408 Genetics and Genomics</td>
<td>BIOL 406 clinical lab tech / BIOL 404 plant path</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Only Medical Science and Plant Science shown.
Development of Teaching Resources and Capacity

- Instructional support (Yna Garnet)
- Administrative support (Ophelia Weeks—partial support)
  - Improved departmental organization, Assoc. Dean appointed
- Workshops and mentoring (Berestecky and Fallah)
- Faculty Resource Center equipped with eGranary database of open source materials, computer cluster and heavy duty copier
- Partially equipped teaching laboratories with 4 mobile lab tables, camera-equipped microscopes, prepared slides, AV equipment, etc.
Undergraduate Life Sciences

FY 2014

 Four UL MSc/fellows at KNUST return in May 2014

 New policies and procedures developed
  • Attendance, grading, classroom management
  • Admissions

 Instructional Support (M. Fallah in L105-106; Y. Garnett for remedial science at TNIMA)

 Workshops and mentoring (J. Berestecky/TBA)

 Course development for sophomore year
Major Challenges

1. Staffing the instructional program at A.M. Dogliotti in FY 2015
2. Renovation of UL’s Natural/Physical Sciences Building at Fendall campus (electricity, water, sanitation, safety)
3. Fully equipping teaching laboratories at UL
4. Strengthening the faculty’s knowledge base and pedagogical skills at the College of Science and Technology, TNIMA, and GME at A.M. Dogliotti
5. Sustaining momentum in course development efforts
6. Developing a Strategic Plan for a UL College of Health Sciences
5. Internet connectivity and UL’s information technology environment
6. Providing additional training and assistance to librarians
7. Implementing a development strategy for CEHLS
Thank You

CEHLS Planning Meeting

University of Liberia
Wede Brownell, Vice President