Resolution # 45 2010-2011
College Senate

TO: Dr. John R. Halstead, College President
FROM: The College Senate: May 2, 2011
RE: I. Formal Resolution (Act of Determination)

II. Recommendation (Urging the Fitness of)
III. Other, For Your Information (Notice, Request, Report, etc.)

SUBJ: Medical Technology Majors Require Statistics Only (routing H68_10-11UC)
Signed: __________________________ Date: 5/11/11
(Dr. John R. Torre, 2010-11, College Senate President)

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO: Jose R. Torre, College Senate President
FROM: John R. Halstead, College President
RE: I. Decision and Action Taken on Formal Resolution (circle choice)
   a. Accepted - Implementation Effective Date: Fall 2011
   b. Deferred for discussion with the Faculty Senate on ______/_____/____
   c. Unacceptable for the reasons contained in the attached explanation

II, III. Response to Recommendation or Other/FYI
   a. Received and acknowledged ______/_____/____
   b. Comment:

Signed: __________________________ Date: 5/11/11
(Dr. John R. Halstead, President, The College at Brockport)

DISTRIBUTION
Upon approval, the College President will forward copies of resolutions to his staff who will, in turn, forward copies to their staff. The College Senate Office will post resolutions to the College Senate Web at http://www.brockport.edu/collegesenate/resolutions.
INSTRUCTIONS – please, no multiple attachments – each proposal must be submitted electronically as one document.

- Submit only complete proposals. Include support letters from department chair and dean.
- Proposals must be prepared individually in Word format using committee guidelines available at brockport.edu/collegesenate/proposal.html.
- Fill out this cover page for each proposal and insert it electronically as the front page of your document. (/collegesenate/proposal.html)
- Email whole proposal with cover page as one attachment to senate@brockport.edu and facprez@brockport.edu.
- All updates must be resubmitted to the Senate office with the original cover page including routing number.
- Questions? Call the Senate office at 395-2586 or the appropriate committee chairperson.

1. **PROPOSAL TITLE:** Please be somewhat descriptive, ie. *Graduate Probation/Dismissal Proposal* rather than *Graduate Proposal*.

   Requirement for Medical Technology Majors to Change the Math Requirement -- Only Statistics will be required

2. **BRIEF DESCRIPTION OF PROPOSAL:**

   We wish to require Medical Technology Majors be required to take Elementary Statistics, MTH 243, in place of the current requirement for either Calculus (Math 201) Business Calculus (MTH221) or Elementary Statistics (MTH243). The content of Elementary Statistics will better enable our students to be competitive in applying for the Medical Technology Internship, and the expertise gained in Elementary Statistics will be much more relevant to their Major that the Calculus course that was previously required. Additionally, Statistics is now listed under its Substantial Equivalence Section in the licensure law for Clinical Laboratory Technology. This change will better serve our students as they pursue their degree, and also help them fulfill the New York State requirements for licensure.

3. **WILL ADDITIONAL RESOURCES AFFECTING BUDGET BE NEEDED?** __X__ NO ___ YES EXPLAIN

4. **HOW WILL THIS EFFECT TRANSFER STUDENTS:**

   No effect

5. **ANTICIPATED EFFECTIVE DATE:**

   Fall, 2011

6. **SUBMISSION & REVISION DATES:** PLEASE PUT A DATE ON ALL UPDATED DOCUMENTS TO AVOID CONFUSION.

<table>
<thead>
<tr>
<th>First Submission</th>
<th>Updated on</th>
<th>Updated on</th>
<th>Updated on</th>
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<tbody>
<tr>
<td>3/1/11</td>
<td>4/6/11</td>
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7. **SUBMITTED BY:** (contact person)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craig Lending</td>
<td>Biology</td>
<td>X5755</td>
<td><a href="mailto:clending@brockport.edu">clending@brockport.edu</a></td>
</tr>
</tbody>
</table>

8. **COMMITTEES TO COPY:** (Senate office use only)

<table>
<thead>
<tr>
<th>Standing Committee</th>
<th>Forwarded For Approval To</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>__Enrollment Planning &amp; Policies</td>
<td>Committee for approval</td>
<td>3/1/11, 4/6/11</td>
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<tr>
<td>__Faculty &amp; Professional Staff Policies</td>
<td>Executive Committee</td>
<td>4/11/11</td>
</tr>
<tr>
<td>__General Education &amp; Curriculum Policies</td>
<td>GED to Vice Provost</td>
<td>Na</td>
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<tr>
<td>__Graduate Curriculum &amp; Policies</td>
<td>Senate</td>
<td>4/18/11, 5/2/11 passed</td>
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<tr>
<td>__Student Policies</td>
<td>College President</td>
<td>OTHER</td>
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<tr>
<td>xxUndergraduate Curriculum &amp; Policies</td>
<td>REJECTED -WITHDRAWN</td>
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NOTES:
## Major in Medical Technology
### Current Biology requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 201 Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 202 Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 301 Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 302 Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 321 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 322 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 323 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 414 Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 481 Medical Technology Internship</td>
<td>15</td>
</tr>
<tr>
<td>BIO 581 Medical Technology Internship</td>
<td>15</td>
</tr>
<tr>
<td><strong>Minimum Total:</strong></td>
<td><strong>61</strong></td>
</tr>
</tbody>
</table>

### Chemistry requirements:

- CHM 205-206 College Chemistry I & II: 8 credits
- CHM 305 Organic Chemistry I: 4 credits
- CHM 306 or CHM 313 (Organic II or Quantitative Chemical Analysis): 4 credits

### Math requirements:

- MTH201, MTH221, or MTH243: 3 or 4 credits

### Physics requirements:

- PHS 205-210 Intro to Physics I & II w/lab: 8 credits
  - OR
- PHS 235-240 Physics I & II w/lab: 8 credits
- PHS 205-210 Intro to Physics I & II w/lab: 8 credits
  - OR
- PHS 235-240 Physics I & II w/lab: 8 credits
3. The changes above reflect our Department’s desire to improve student performance and learning in our Medical Technology Major. We believe the requirement for MTH243 (Statistics) provides better alignment with the program than the current alternatives of MTH201 (Calculus), Business Calculus (MTH221) or Elementary Statistics (MTH243). Additionally, Statistics is now listed under its Substantial Equivalence Section in the licensure law for Clinical Laboratory Technology.

4. There are no new courses involved in this proposal.

5. There are no additional staffing needs required by this proposal.

6. Letter of Support – Department Chair

Craig,

I support the proposal to require Statistics for the Medical Technology Majors. For their NY State licensing, practicing medical technologists will be required to have expertise in statistics. Therefore, it makes sense that we should require Statistics for all of our Medical Technology majors. This means that instead of having a one-course elective in mathematics (Calculus or Statistics), they will have a one-course requirement in Statistics. This proposal will insure that the students will take the mathematics course that will best prepare them for a career in Medical Technology.

Sincerely,
Stuart

--
Stuart Tsubota
Professor and Chair
Department of Biology
The College at Brockport
350 New Campus Drive
Brockport, NY 14420

phone (585) 395-5759
fax (585) 395-2741
email stsubota@brockport.edu

Letter of Support – Department of Mathematics

Craig,

The Department of Mathematics faculty discussed your proposal...
(#68_10-11UC) regarding the Statistics requirement for Medical Technology majors during our March 31st departmental meeting. I am pleased to report that we are supporting the proposal, as we understand the need for statistical knowledge for these majors. There were some questions concerning the number of students and the impact on our MTH 243 (Elementary Statistics) course, but, for the benefit of your majors, we'll deal with these possible problems if and when they will arise.

Sincerely,
Michael

Dr. Mihail Barbosu, Chair
Department of Mathematics
College at Brockport
State University of New York
350 New Campus Dr.
Brockport, NY, 14420, USA
Tel: +1-585-395-5675
Fax: +1-585-395-2304
Web: http://www.brockport.edu/math

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Letter of Support – External Sources

Hi Craig, yes I support the proposal to require statistics, not only because statistics is used heavily the clinical laboratory but because the NYS Dept of Education has listed it under its substantial equivalence section in the licensure law, for clinical laboratory technology.

Thank you!! Nancy Mitchell  2/28/11

Nancy C. Mitchell, M.S., MT(ASCP), DLM
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