Undergraduate Curriculum Committee
Meeting Minutes
February 23, 2017
3:30 pm, UC 222

Members Present: Diana Bailey, Lisa Driskell, Eric Elliott, Keith Fritz, Geoffrey Gurka, Jennifer Hancock, Glenn Hoff, Eliot Jennings, Scott Kessler, Jennifer LaBombard-Daniels, and Jill Van Brussel

Members Absent: Sean Flanigan

Ex-officio members present: Kurt Haas (AVPAA), Rose Petralia (Library), and Holly Teal (Registrar).

Guests: Maggie Bodyfelt (Registrar’s Office); Barry Laga (Languages, Literature, and Mass Communication); Patti Ward (Health Sciences); Kristen Yun (Music) Russ Walker (Physical and Environmental Sciences); Jessica Herrick and Erika Jackson (Social and Behavioral Sciences); John McLaughlin (Western Colorado Community College).

Recording Secretary: Jessie Barnett

Chair Kessler called the meeting to order at 3:34

I. Announcements

A) Faculty Senate approved meeting minutes from 11/10/2016 on 2/2/2017
B) Faculty Senate approved meeting minutes from 12/16/2017 on 2/16/2017

Chair Kessler made the above announcements.

C) Approval of 1/26/17 Meeting Minutes (distributed via email)

Chair Kessler asked for a motion to approve last meeting’s minutes. Dr. Jennings stated that there was an error – the motions to approve items from the Department of Business were attributed to Eric Elliot instead of to Elliot Jennings. Motion to approve the 1/26/17 minutes with the noted corrections (Gurka/Van Brussel). Motion carried.

II. Curriculum Proposals

Summary of committee actions on curriculum proposals begins on pg. 3. Further details of proposals begin on pg.18.

III. Information Items

Chair Kessler noted that per the WCCC Curriculum Committee Minutes from 2/14/2017 the effective date for OFAD 291 will be extended through Fall 2018 to allow for the completion of the teach out plan.
IV. New Business

With no additional business, the meeting adjourned at 4:55.

Respectfully submitted,
Jessie Barnett
Recording Secretary
<table>
<thead>
<tr>
<th>Proposal</th>
<th>Committee Action</th>
<th>Members</th>
<th>Effective Date</th>
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</thead>
<tbody>
<tr>
<td>Program Addition: BAS Interdisciplinary Studies</td>
<td>Approved</td>
<td>LaBombard-Daniels, Van Brussel</td>
<td>Fall 2017</td>
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<tr>
<td>Dr. Kurt Haas provided an overview about this proposed BAS, which is</td>
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<td>designed for AAS completers to earn a 4-year degree even when there</td>
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<td>technical training does not fit with one of our current BAS majors.</td>
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<td>There was discussion regarding which department would provide oversight.</td>
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<td>Academic Affairs will provide administrative oversight, while oversight</td>
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<td>for each individual student’s degree will be with the faculty advisor</td>
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<td>and department overseeing the individualized course of study.</td>
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<tr>
<td>Course Modification: ARTE 102 Three - Dimensional Design</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<tr>
<td>Updated catalog discussion. No concerns.</td>
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<tr>
<td>Course Modification: MATH 110 College Math</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td>Change in prerequisites.</td>
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<tr>
<td>Course Modification: MATH 484 Senior Seminar I</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td>Change in prerequisites.</td>
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<tr>
<td>Program Modification: Minor Mathematics: M460</td>
<td>Approved</td>
<td>LaBombard-Daniels, Van Brussel</td>
<td>Fall 2017</td>
</tr>
<tr>
<td>Updated program sheet to reflect new course options.</td>
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<tr>
<td>Course Modification: NURS 388 Mental Health Nursing</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
</tr>
<tr>
<td>Corrected prerequisites to include NURS 373/373L rather than the NURS 372L, which does not exist.</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
</tr>
<tr>
<td>Course Modification: NURS 388L Mental Health Nursing Clinical</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
</tr>
<tr>
<td>Corrected prerequisites to include NURS 373/373L rather than the NURS 372L, which does not exist.</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
</tr>
<tr>
<td>Course Modification: NURS 394 Nursing Research: An Evidenced-Based</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td>Practice</td>
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<tr>
<td>Course Modification: NURS 418 Gerontological Nursing and Chronic</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td>Illness</td>
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<tr>
<td>Course Modification: NURS 432 Capstone Leadership for the RN</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td>Updated prerequisites.</td>
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<table>
<thead>
<tr>
<th>Proposal</th>
<th>Committee Action Members (motion/second)</th>
<th>Effective Date</th>
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</thead>
<tbody>
<tr>
<td>11</td>
<td>Program Modification: BSN Nursing-RN to BSN: 3613</td>
<td>Approved Driskell, Hancock Fall 2017</td>
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<tr>
<td></td>
<td>Changes to program sheet to remove &quot;Required Electives&quot; section and to recommend a Natural Sciences course selection. No concerns.</td>
<td></td>
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<tr>
<td>12</td>
<td>Program Addition: Professional Cert Computed Tomography</td>
<td>Approved Longest, Elliott Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
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</tr>
<tr>
<td>13</td>
<td>Program Addition: Professional Cert Magnetic Resonance Imaging</td>
<td>Approved Longest, Elliott Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Course Addition: RADS 460 Principles of Magnetic Resonance Imaging</td>
<td>Approved Bailey, LaBombard-Daniels Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>15</td>
<td>Course Addition: RADS 470 Applied Magnetic Resonance Imaging</td>
<td>Approved Bailey, LaBombard-Daniels Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>159</td>
<td>Course Addition: RADS 471 Applied Computed Tomography</td>
<td>Approved Bailey, LaBombard-Daniels Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
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<tr>
<td>16</td>
<td>Course Modification: RADS 461 Principles of Computed Tomography</td>
<td>Approved Driskell, Fritz Fall 2017</td>
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<tr>
<td></td>
<td>Course was just added at the UCC meeting on 1/26/2017. The modification is to adjust the prerequisite language to account for the professional certificate being added today.</td>
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<tr>
<td>17</td>
<td>Course Modification: RTEC 480 Clinical Specialization I</td>
<td>Approved Driskell, Fritz Fall 2017</td>
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<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>18</td>
<td>Course Modification: RTEC 490 Clinical Specialization II</td>
<td>Approved Driskell, Fritz Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>19</td>
<td>Course Modification: RTEC 495 Independent Study</td>
<td>Approved Driskell, Fritz Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>20</td>
<td>Course Deletion: RTEC 320 Informatics in Radiologic Science</td>
<td>Approved Driskell, Fritz Fall 2017</td>
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<td>No concerns.</td>
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<td>Proposal</td>
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<tr>
<td>21</td>
<td>Course Deletion: RTEC 325 Cross-Sectional Anatomy I</td>
<td>Approved</td>
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<td></td>
<td>No concerns.</td>
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<td>22</td>
<td>Course Deletion: RTEC 327 Cross Sectional Anatomy II</td>
<td>Approved</td>
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<td></td>
<td>No concerns.</td>
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<td>23</td>
<td>Course Deletion: RTEC 365 Advanced Patient Care</td>
<td>Approved</td>
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<td></td>
<td>No concerns.</td>
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<td>24</td>
<td>Course Deletion: RTEC 450 Specialization: Mammography I</td>
<td>Approved</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>25</td>
<td>Course Deletion: RTEC 452 Specialization: C/V Interventional Technology I</td>
<td>Approved</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>26</td>
<td>Course Deletion: RTEC 454 Specialization: Computed Tomography I</td>
<td>Approved</td>
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<td>No concerns.</td>
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<td>27</td>
<td>Course Deletion: RTEC 456 Specialization: Magnetic Resonance I</td>
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<td>No concerns.</td>
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<td>28</td>
<td>Course Deletion: RTEC 460 Quality Management and Health Care Law</td>
<td>Approved</td>
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<td>No concerns.</td>
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<td>29</td>
<td>Course Deletion: RTEC 470 Specialization: Mammography II</td>
<td>Approved</td>
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<td>No concerns.</td>
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<td>30</td>
<td>Course Deletion: RTEC 472 Specialization: C/V Interventional Technology II</td>
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<td>No concerns.</td>
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<td>31</td>
<td>Course Deletion: RTEC 474 Specialization: Computed Tomography II</td>
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<td>No concerns.</td>
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<td>32</td>
<td>Course Deletion: RTEC 476 Specialization: Magnetic Resonance II</td>
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<td>No concerns.</td>
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<td>33</td>
<td>Course Deletion: RTEC 480 Clinical Specialization I Approved Driskell, Fritz</td>
<td>Fall 2018</td>
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<td>No concerns.</td>
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<tr>
<td>34</td>
<td>Course Deletion: RTEC 490 Clinical Specialization II Approved Driskell, Fritz</td>
<td>Fall 2018</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>35</td>
<td>Course Deletion: RTEC 494 Capstone in Radiologic Science Approved Driskell, Fritz</td>
<td>Fall 2018</td>
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<td></td>
<td>No concerns.</td>
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<td>36</td>
<td>Program Modification: BAS Radiologic Technology: 3621 Approved LaBombard-Daniels, Elliott</td>
<td>Fall 2017</td>
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<td>Modification related to broader restructurings and course prefix changes from RTEC to RADS.</td>
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<tr>
<td>37</td>
<td>Program Deletion: AAS Radiologic Technology: 1621 Deletion Approved Bailey, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>38</td>
<td>Course Modification: KINA 102 Advanced Swimming Approved Elliott, Hoff</td>
<td>Fall 2017</td>
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<td></td>
<td>New name approved &quot;Intermediate Swimming.&quot;</td>
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<tr>
<td>39</td>
<td>Program Modification: BA English-Literature: 3212 Approved Elliott, Hancock</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>40</td>
<td>Program Modification: BA English-Secondary Education: 3213 Approved Elliott, Hancock</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>41</td>
<td>Program Modification: BA English-Writing: 3215 Approved Elliott, Hancock</td>
<td>Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>42</td>
<td>Course Addition: MASS 357 Documentary &amp; News Producing Approved Van Brussel, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>43</td>
<td>Course Modification: MASS 144 Multimedia Storytelling Approved Elliott, Gurka</td>
<td>Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
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<tr>
<td>44</td>
<td>Course Modification: MASS 213 Introduction to Media Writing and Reporting Approved Elliott, Gurka</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
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<tbody>
<tr>
<td>45</td>
<td>Course Modification: MASS 251 Mass Media: Advertising and Promotions</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
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<td>No concerns.</td>
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<tr>
<td>46</td>
<td>Course Modification: MASS 261 Audio Announcing and Production</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td>No concerns.</td>
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<tr>
<td>47</td>
<td>Course Modification: MASS 397 Practicum</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
<td>No concerns.</td>
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<tr>
<td>48</td>
<td>Course Modification: MASS 452 Designing for Brand and Message</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td></td>
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<td>No concerns.</td>
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<tr>
<td>49</td>
<td>Course Modification: MASS 494 Seminar, Theory and Research</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td>No concerns.</td>
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<tr>
<td>50</td>
<td>Course Modification: MASS 499 Internship</td>
<td>Approved</td>
<td>Elliott, Gurka</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>51</td>
<td>Course Deletion: MASS 142 Software Applications</td>
<td>Approved</td>
<td>LaBombard-Daniels, Bailey</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
<td></td>
<td>No concerns.</td>
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<tr>
<td>52</td>
<td>Course Deletion: MASS 319 Commercial Copy</td>
<td>Approved</td>
<td>LaBombard-Daniels, Bailey</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>53</td>
<td>Course Deletion: MASS 343 Social Media</td>
<td>Approved</td>
<td>LaBombard-Daniels, Bailey</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
<td></td>
<td>No concerns.</td>
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<tr>
<td>54</td>
<td>Program Modification: BA Mass Communication-Media Strategies and Applications: 3256</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
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<td>No concerns.</td>
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<td>55</td>
<td>Program Modification: Minor Mass Communication: M250</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
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<td>No concerns.</td>
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<tr>
<td>56</td>
<td>Course Modification: FLAS 421 Hispanic Poetry</td>
<td>Approved</td>
<td>Hancock, Gurka</td>
<td>Fall 2017</td>
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<td></td>
<td></td>
<td>No concerns.</td>
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<td>Proposal</td>
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<td>57</td>
<td>Program Modification: Minor Spanish: M245</td>
<td>Approved</td>
<td>Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td>LaBombard-Daniels, Elliott</td>
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<tr>
<td>58</td>
<td>Course Addition: MUSP 320 Junior Recital</td>
<td>Approved</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
<td>Elliott, Van Brussel</td>
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<tr>
<td>59</td>
<td>Course Modification: MUSA 130 Class Piano I</td>
<td>Approved</td>
<td>Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td>Hancock, Elliott</td>
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<td>60</td>
<td>Course Modification: MUSA 131 Class Piano II</td>
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<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
<td>Hancock, Elliott</td>
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<tr>
<td>61</td>
<td>Course Modification: MUSA 230 Class Piano III</td>
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<td>Fall 2017</td>
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<td>No concerns.</td>
<td>Hancock, Elliott</td>
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<tr>
<td>62</td>
<td>Course Modification: MUSA 231 Class Piano IV</td>
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<td>Fall 2017</td>
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<td>No concerns.</td>
<td>Hancock, Elliott</td>
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<td>65</td>
<td>Course Modification: MUSP 420 Senior Recital/Presentation</td>
<td>Approved</td>
<td>Fall 2017</td>
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<td>No concerns.</td>
<td>Hancock, Elliott</td>
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<tr>
<td>64</td>
<td>Program Modification: BM Music Performance: 3280</td>
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<td>Fall 2017</td>
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<tr>
<td></td>
<td>No concerns.</td>
<td>Van Brussel, LaBombard-Daniels</td>
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<tr>
<td>65</td>
<td>Program Modification: BME Music Education K-12: 3282</td>
<td>Approved</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
<td>Van Brussel, LaBombard-Daniels</td>
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<tr>
<td>66</td>
<td>Program Deletion: Minor Music-Vocal: M211 Deletion</td>
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<td>Fall 2017</td>
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<td>Bailey, Gurka</td>
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<td>After closer reading of the explanation for this proposal, Chair Kessler suggested that a program modification proposal with a modified program sheet showing that one track will no longer be offered should be submitted, rather than a request to delete the minor.</td>
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<td>67</td>
<td>Course Deletion: BIOL 332 Introduction to GIS</td>
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<td>Fall 2017</td>
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<tr>
<td></td>
<td>This was a cross-listed course that is no longer needed.</td>
<td>Elliott, LaBombard-Daniels</td>
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<tr>
<td>Proposal</td>
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<td><strong>68</strong></td>
<td><strong>Course Deletion: BIOL 332L Introduction to Geographic Information Systems Laboratory</strong></td>
<td>Approved, Elliott, LaBombard-Daniels</td>
<td>Fall 2017</td>
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<td>No concerns.</td>
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<td><strong>69</strong></td>
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<td>Fall 2017</td>
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<td><strong>70</strong></td>
<td><strong>Course Addition: ENGL 325 Writing for Engineers</strong></td>
<td>Approved, Hancock, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td>It was clarified that this course is specifically for Engineering students and that there is an existing 400-level more general science writing course that can fill the needs of majors from other disciplines.</td>
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<td><strong>71</strong></td>
<td><strong>Course Addition: ENGR 317L Fundamentals of Circuits and Electronics Lab</strong></td>
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<td><strong>73</strong></td>
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<td>Conditionally Approved, Gurka, LaBombard-Daniels</td>
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<td>Completion of library assessment required for full approval.</td>
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<td>Fall 2017</td>
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<td>Fall 2017</td>
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<td>98</td>
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<td>99</td>
<td>Program Modification: Minor Archaeology: M725 Approved</td>
<td>Jennings, LaBombard-Daniels Fall 2017</td>
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<td>100</td>
<td>Program Modification: Prof Cert Cultural Resource Management: 1710 Approved contingent upon corrections</td>
<td>Jennings, Elliott Fall 2017</td>
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<td></td>
<td>At the request of the Registrar's Office, the program sheet will be corrected to list out individually all courses required for this certificate in place of &quot;Students must complete the traditional Archaeology Minor AND take the following 12 hours&quot;.</td>
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<td>101</td>
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<td>Jennings, Gurka Fall 2017</td>
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<td>102</td>
<td>Course Modification: POLS 201 Introduction to Politics Approved</td>
<td>Jennings, Longest Fall 2017</td>
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<td>103</td>
<td>Program Modification: BA Political Science: 3718 Approved</td>
<td>Jennings, Gurka Fall 2017</td>
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<td>104</td>
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<td>Jennings, Gurka Fall 2017</td>
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<td>No concerns.</td>
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<td>105</td>
<td>Program Modification: BA Liberal Arts-Elementary Education, Social Science: 3251 Approved</td>
<td>Jennings, Elliott Fall 2017</td>
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<td>No concerns.</td>
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<td>106</td>
<td>Course Deletion: EDUC 485 Modes of Inquiry Approved</td>
<td>Longest, Elliott Fall 2017</td>
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<td>No concerns.</td>
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<td>107</td>
<td>Course Deletion: EDUC 487 Literacy Education K-6 Approved</td>
<td>Longest, Elliott Fall 2017</td>
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<td>No concerns.</td>
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<td>108</td>
<td>Course Deletion: EDUC 488 Math Education K-6 Approved</td>
<td>Longest, Elliott Fall 2017</td>
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<td>109</td>
<td>Course Deletion: EDUC 492A ITL 2: Directed Teaching: Elementary Education Approved</td>
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<td>110 Course Deletion: EDUC 492B ITL 2: Directed Teaching: Secondary Education</td>
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<td>111 Program Modification: BA Early Childhood Education-Special Education</td>
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<td>Hancock, LaBombard-Daniels</td>
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<td>New title approved: BA, Early Childhood Education, Early Childhood Special Education Concentration.</td>
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<td>112 Course Modification: DANC 180 Beginning Hip Hop Dance</td>
<td>Approved</td>
<td>Bailey, Hancock</td>
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<td>No concerns.</td>
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<tr>
<td>113 Course Modification: DANC 181 Ballet I</td>
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<td>Bailey, Hancock</td>
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<td>No concerns.</td>
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<td>114 Course Modification: DANC 182 Jazz I</td>
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<td>No concerns.</td>
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<td>115 Course Modification: DANC 183 Modern I</td>
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<td>116 Course Modification: DANC 184 Tap I</td>
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<td>No concerns.</td>
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<td>117 Program Modification: BA Theatre Arts-Design/Technology: 3262</td>
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<td>Elliott, Fritz</td>
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<td>118 Program Modification: BFA Dance: 3267</td>
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<td>Proposal is to ensure that DegreeWorks is programmed to align with existing language on the program sheet. No new requirements.</td>
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<td>119 Program Modification: BFA Theatre Arts-Acting/Directing: 3260</td>
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<td>120 Program Modification: BFA Theatre Arts-Music Theatre: 3263</td>
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<td>121</td>
<td>Proposal Modification: Minor Dance: M220</td>
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<td>122</td>
<td>Course Addition: CUAR 220 Fundamentals of Healthy Cooking</td>
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<td>Program faculty not in attendance.</td>
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<td>123</td>
<td>Course Modification: CUAR 160 Cake Decorating</td>
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<td>124</td>
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<td>125</td>
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<td>126</td>
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<td>128</td>
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<td>132</td>
<td>Program Addition: Technical Cert Information and Communication Technology: Network Technician</td>
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<tbody>
<tr>
<td>140</td>
<td>No concerns.</td>
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<td>Hancock, Gurka</td>
<td>Fall 2017</td>
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<tr>
<th>Proposal</th>
<th>Course Modification: TECI 230 Cisco Networking 3</th>
<th>Committee Action</th>
<th>Members</th>
<th>Effective Date</th>
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<td>141</td>
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<th>Proposal</th>
<th>Course Modification: TECI 235 Cisco Networking 4</th>
<th>Committee Action</th>
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<td>142</td>
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<tr>
<th>Proposal</th>
<th>Course Deletion: TECI 251 Leadership</th>
<th>Committee Action</th>
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<td>143</td>
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<th>Proposal</th>
<th>Course Deletion: TECI 290 Certification</th>
<th>Committee Action</th>
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<td>145</td>
<td>Program Deletion: AAS Tech Integration-Network/Telecommunication Technician: 1328 Deletion</td>
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<td>Hoff, Elliott</td>
<td>Fall 2017</td>
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<td>146</td>
<td>Program Deletion: Tech Cert Tech Integration-Network Technician: 1322 Deletion</td>
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<td>Driskell, Gurka</td>
<td>Fall 2017</td>
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<td>147</td>
<td>Program Deletion: Tech Cert Tech Integration-Telco VoIP Technician: 1330 Deletion</td>
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<td>Fall 2017</td>
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<td>149</td>
<td>Course Addition: MOAP 110 Medical Office Administration</td>
<td>Approved</td>
<td>Bailey, Hoff</td>
<td>Fall 2017</td>
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<td>150</td>
<td>Course Addition: MOAP 130 Medical Office Administration Insurance Billing and Coding</td>
<td>Approved</td>
<td>Bailey, Hoff</td>
<td>Fall 2017</td>
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<td>151</td>
<td>Program Modification: AAS Medical Office Assistant: 1396</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<tr>
<td>152</td>
<td>Program Modification: Tech Cert (A-M) Medical Office Assistant: 1158</td>
<td>Tabled</td>
<td>Hoff, Hancock</td>
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<td>This proposal has not yet been approved by the WCCC Curriculum Committee/</td>
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<tr>
<td>153</td>
<td>Course Deletion: OFAD 118 Introduction to PC Applications</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<td>No concerns.</td>
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<tr>
<td>154</td>
<td>Course Deletion: OFAD 249 Medical Office Procedures</td>
<td>Approved</td>
<td>Hancock, Elliott</td>
<td>Fall 2017</td>
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<td></td>
<td>No concerns.</td>
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<tr>
<td>155</td>
<td>Course Deletion: REEB 201 Real Estate Broker I</td>
<td>Approved</td>
<td>Elliott, Hoff</td>
<td>Fall 2017</td>
</tr>
<tr>
<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>156</td>
<td>Course Deletion: REEB 202 Real Estate Broker II</td>
<td>Approved</td>
<td>Elliott, Hoff</td>
<td>Fall 2017</td>
</tr>
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<td>Proposal</td>
<td>Committee Action</td>
<td>Members</td>
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<tr>
<td>157</td>
<td>Program Deletion: Tech Cert (N-Z) Real Estate Broker: 1130 Deletion</td>
<td>Acknowledged</td>
<td>Bailey, Elliott</td>
<td>Fall 2017</td>
</tr>
<tr>
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<td></td>
<td>No concerns.</td>
<td></td>
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<tr>
<td>158</td>
<td>Program Modification: AAS Water Quality Management: 1365</td>
<td>Approved</td>
<td>Hoff, Gurka</td>
<td>Fall 2017</td>
</tr>
<tr>
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<tr>
<td></td>
<td>No concerns.</td>
<td></td>
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</tr>
</tbody>
</table>
Department: Academic Affairs

Program Additions

Interdisciplinary Studies
  Degree Type: BAS
  Abbreviated Name: Interdisciplinary Studies

Proposed by: Kurt Haas

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Course Modifications

ARTE 102

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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<tbody>
<tr>
<td>Course Prefix:</td>
<td>ARTE</td>
</tr>
<tr>
<td>Course No.:</td>
<td>102</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Three-Dimensional Design</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

Description for catalog:

Current: The principles of form and function in three-dimensional design with emphasis on color theory and use. Two hours of lecture and two hours of studio per week

Proposed: Introduction to principles of form and function in three-dimensional design with emphasis on materials, process, and craftsmanship.

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Justification:

The current description for ARTE 102 was an error transposed from ARTE 101 sometime ago. This description error pre-dates the current faculty teaching this course. The use of color theory is not an accurate description of how ARTE102 is taught.

Proposed by: Araan Schmidt
Expected Implementation: Fall 2017
**Course Modifications**

**MATH 110**

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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<tbody>
<tr>
<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>110</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>College Math</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
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</tbody>
</table>

**Prerequisites:**

Current: two years of high school math at the algebra level or higher, or MATC 091 or equivalent or appropriate mathematics placement test score.

Proposed: MATC 091 or equivalent or appropriate mathematics placement test score.

Requirement or listed choice for any program of study: Yes ☑️ No ☐

Change affects program sheet or grad requirements: Yes ☑️ No ☐

**Justification:**

We are removing the "two years of high school math at the algebra level or higher" as part of the prerequisite list. The other options in the list of prerequisites, including an "appropriate mathematics placement test score," are sufficient for determining placement into the proper math classes.

**Discussions with affected departments:**

NA

**Proposed by:** Lisa Driskell

**Expected Implementation:** Fall 2017
Course Modifications

MATH 484

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MATH</td>
</tr>
<tr>
<td>Course No.:</td>
<td>484</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>2</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Senior Seminar I</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Current: consent of instructor</td>
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<tr>
<td>Requirement or listed choice for any program of study:</td>
<td>Yes</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

CSMS BS, Mathematics-Mathematics: 3424
CSMS BS, Mathematics-Statistics: 3434

Course is a requirement for a new program:
BS - Mathematics - Applied Mathematics

Justification:
The unwritten guidelines for instructor consent was that students would have passed one of the courses we are now listing as prerequisites. Making the prerequisites official will allow students to register without having to sign the add forms.

Discussions with affected departments:
NA

Proposed by: Lisa Driskell

Expected Implementation: Fall 2017
Program Modification

Mathematics:  M460

Degree Type:  Minor

Revision to program sheet:  Yes ☑  No ☐

Description of modification:
1. Include the new courses MATH 366 Methods of Applied Math II and MATH 466 Methods of Applied Math III in the list of electives for the minor.
2. Include MATH 225 Computational Linear Algebra as an option for the lower level required courses.
3. (clean up) Change the name of MATH 325 from Linear Algebra I to Linear Algebra and change the name of MATH 460 from Linear Algebra II to Advanced Linear Algebra to reflect the course modifications approved in January 2017.

Justification:
1. The new courses were approved in curriculum in January 2017 and the department agrees that these courses are suitable options for the degree electives.
2. MATH 225 Computational Linear Algebra is newly required for all concentrations in math and the course is a new prerequisite for MATH 325 Linear Algebra (approved January 2017). If students intend to take MATH 325 (an elective for the minor) we would like students to get credit toward the minor for taking the prerequisite MATH 225. Including MATH 225 also provides another route for the minor that will be particularly beneficial for students majoring in Computer Science.

Revision to SLOs:  Yes ☐  No ☑

Other changes:  Yes ☐  No ☑

Discussions with affected departments:
NA

Proposed by:  Lisa Driskell

Expected Implementation:  Fall 2017
Course Modifications

NURS 388

Intended semester to offer modified course for the 1st time: Fall 2017

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<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
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<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Mental Health Nursing</td>
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<td>Times for Credit:</td>
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<td>Co-requisites:</td>
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<tr>
<td>Current: NURS 373 and NURS 372L and NURS 388L and NURS 394</td>
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</tr>
<tr>
<td>Proposed: NURS 373/373L and NURS 388L and NURS 394</td>
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<tr>
<td>Requirement or listed choice for any program of study:</td>
<td>Yes</td>
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<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
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Justification:
NURS 372L is not a course. The correct course should be NURS 373L.

Proposed by: Diana Bailey

Expected Implementation: Fall 2017
Course Modifications

NURS 388L

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
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<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>388L</td>
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<tr>
<td>Credit Hours:</td>
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<tr>
<td>Course Title:</td>
<td>Mental Health Nursing Clinical</td>
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<tr>
<td>Times for Credit:</td>
<td>1</td>
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</table>
| Co-requisites: | Current: NURS 373 and NURS 372L and NURS 388 and NURS 394  
Proposed: NURS 373/373L and NURS 388 and NURS 394 |
| Requirement or listed choice for any program of study: | Yes ☑ No ☐ |
| Change affects program sheet or grad requirements: | Yes ☑ No ☐ |

Justification:

NURS 372L is not a course. The correct course should be NURS 373L.

Proposed by: Diana Bailey  
Expected Implementation: Fall 2017
Course Modifications

NURS 394

Intended semester to offer modified course for the 1st time: Fall 2017

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<tr>
<td>Course No.:</td>
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<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Nursing Research: An Evidenced-Based Practice</td>
</tr>
<tr>
<td>Times for Credit:</td>
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</table>

Co-requisites:
- Current: NURS 373 and NURS 372L and Nurs 388/388L
- Proposed: NURS 373/373L and NURS 388/388L

Requirement or listed choice for any program of study: Yes [x] No [ ]
Change affects program sheet or grad requirements: Yes [x] No [ ]

Justification:
NURS 372L is not a course. The correct course should be NURS 373L.

Proposed by: Diana Bailey
Expected Implementation: Fall 2017
Course Modifications

NURS 418

Intended semester to offer modified course for the 1st time: Fall 2017

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<td>Course Prefix:</td>
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<td>Course No.:</td>
<td>418</td>
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<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Gerontological Nursing and Chronic Illness</td>
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<tr>
<td>Times for Credit:</td>
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<tr>
<td>Prerequisites:</td>
<td>Current: NURS 320/320L</td>
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<td></td>
<td>Proposed: Removing NURS 320/320L as a prerequisite</td>
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<tr>
<td>Co-requisites:</td>
<td>Current: NURS 406, NURS 413, and NURS 422.</td>
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<td>Proposed: Removing NURS 406 and NURS 413 and NURS 422 as co-requisites.</td>
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<td>Requirement or listed choice for any program of study:</td>
<td>Yes ✔ No ☐</td>
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<td>Change affects program sheet or grad requirements:</td>
<td>Yes ☐ No ✔</td>
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</table>

Justification:
NURS 406 is not a course in the RN-BSN program. This is an error.
NURS 413 is not a course in the RN-BSN program. This is an error.
NURS 422 is being removed as a co-requisite.
NURS 320/320L have been eliminated as prerequisites.

It was determined that NURS 418 did not use content from NURS 320/320L, so NURS 320/320L is being removed as a prerequisite for NURS 418.

Proposed by: Diana Bailey

Expected Implementation: Fall 2017
Course Modifications

NURS 432

Intended semester to offer modified course for the 1st time:  Fall 2017

<table>
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<tbody>
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<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>432</td>
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<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Capstone Leadership for the RN</td>
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<td>Times for Credit:</td>
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<td>Prerequisites:</td>
<td>Current: Admission to the RN-BSN program and instructor permission.</td>
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<tr>
<td></td>
<td>Proposed: NURS 300, NURS 320/320L, NURS 408, NURS 409, NURS 410/410L, NURS 422/422L, NURS 418, NURS 426, NURS 428, and NURS 430/430L</td>
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<td>Requirement or listed choice for any program of study:</td>
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<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
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</table>

Justification:

NURS 432 is intended to be the last course taken in the RN-BSN program. What is currently in the catalog implies that if you have instructor permission, you can take the course earlier than the last course.

Proposed by: Diana Bailey

Expected Implementation: Fall 2017
Program Modification

Nursing-RN to BSN: 3613

Degree Type: BSN

Revision to program sheet: Yes ☑ No ☐

Description of modification:
(1) The two required electives, NURS 408 and NURS 409, were moved from the electives portion of the program sheet to the required section of the program sheet.
(2) The words "highly recommended" were added to BIOL 250/250L.

Justification:
(1) The program sheet was confusing. Students did not know what a "required elective" meant. Moving NURS 408 and NURS 409 to the required section will eliminate confusion.
(2) Students are frequently confused as to what natural science to take. We always recommend BIOL 250/250L. Adding this to the program sheet is a more effective way to direct students to sciences courses that will be of the greatest benefit for nursing students.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☑ No ☐

Discussions with affected departments:
Debra Bailey spoke to Dr. Waring about BIOL 250/250L prior to making this change. BIOL 250/250L will now be offered each semester instead of fall only.

Proposed by: Diana Bailey

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Department:  Health Sciences-Radiologic Sciences

Program Additions

Computed Tomography

  Degree Type:  Professional Cert
  Abbreviated Name:  CT

  Proposed by:  Patti Ward
  Director of Teacher Education Signature:

  Expected Implementation:  Fall 2017
Program Additions

Magnetic Resonance Imaging
  Degree Type:  Professional Cert
  Abbreviated Name:  MRI

Proposed by:  Patti Ward

Director of Teacher Education Signature:

Expected Implementation:  Fall 2017
Course Additions

RADS 460  
Credit Hours 2

Course Title: Principles of Magnetic Resonance Imaging

Abbreviated Title: Principles of MRI

Contact hours per week: Lecture 2 Lab Field Studio Other

Type of Instructional Activity: Lecture

Academic engagement minutes: 1500  
Student preparation minutes: 3000

Intended semesters for offering this course: Fall  J-Term  Spring  Summer

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes  No  ✓

Prerequisites: Yes  ✓  No  □

(Acceptance into the Bachelor of Applied Science program or Radiologic Sciences MRI Certificate program) (Registered radiologic technologist with minimum associate degree)

Prerequisite for other course(s): Yes  ✓  No  □

Co-requisites: Yes  ✓  No  □

Requirement or listed choice for any program of study: Yes  ✓  No  □

Course is a requirement for a new program:

Professional Certificate in Magnetic Resonance Imaging

Overlapping content with present courses offered on campus: Yes  ✓  No  □

Additional faculty FTE required: Yes  ✓  No  □

Additional equipment required: Yes  ✓  No  □

Additional lab facilities required: Yes  ✓  No  □

Course description for catalog:

Introduction to the operation of a magnetic resonance imaging (MRI) scanner. Includes magnetic resonance imaging instrumentation, safety, physics, and contrast media. Does not include clinical experience.

Justification:

This is an existing course in the BAS (RTEC 456, Magnetic Resonance I). Content in the course remains the same. The prefix, course number, name, and catalog description have been changed to align with the recently approved BSRS. This course will also be part of the new MRI professional certificate.

Topical course outline:

I. Instrumentation
II. Safety
III. Physics
IV. Contrast media

Student Learning Outcomes:

1. Breakdown the essential components of a magnetic resonance imaging scanner.
2. Discuss safety concerns specific to magnetic resonance imaging.
3. Evaluate patients and personnel using a magnetic resonance imaging screening form.
4. Explain the physics specific to magnetic resonance imaging.
5. Discuss the use of contrast media in magnetic resonance imaging.

Discussions with affected departments:

<table>
<thead>
<tr>
<th>Course Additions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
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</tbody>
</table>

Proposed by: Patti Ward

Expected Implementation: Fall 2017
Course Additions

RADS 470  
Credit Hours 3

Course Title: Applied Magnetic Resonance Imaging

Abbreviated Title: Applied MRI

Contact hours per week: Lecture 3  Lab  Field  Studio  Other

Type of Instructional Activity: Lecture

Academic engagement minutes: 2250  Student preparation minutes: 4500

Intended semesters for offering this course: Fall  J-Term  Spring  ✔  Summer

Intended semester to offer course 1st time: Spring 2018

Number of times course may be taken for credit: 1

Essential Learning Course: Yes  No  ✔

Prerequisites: Yes  ✔  No  

Prerequisite RADS 460

Prerequisite for other course(s): Yes  No  ✔

Co-requisites: Yes  No  ✔

Requirement or listed choice for any program of study: Yes  ✔  No  

Course is a requirement for a new program:

Professional Certificate in Magnetic Resonance Imaging

Overlapping content with present courses offered on campus: Yes  No  ✔

Additional faculty FTE required: Yes  No  ✔

Additional equipment required: Yes  No  ✔

Additional lab facilities required: Yes  No  ✔

Course description for catalog:

Continuation of RADS 460. Development of knowledge and cognitive skills underlying the intelligent performance of tasks typically required of technologists who perform magnetic resonance imaging procedures. Includes patient care, image production, procedures, artifacts, and quality control. Does not include clinical experience.

Justification:

This is a course in the current BAS (RTEC 476, Magnetic Resonance II). Content in the course remains the same. The prefix, course number, name, and catalog description have been changed to align with the recently approved BSRS. This course will also be part of the new MRI professional certificate.

Topical course outline:

I. Patient Care
II. Image Production
III. Procedures
IV. Artifacts
V. Quality Control

Student Learning Outcomes:

1. Describe patient care issues relating to magnetic resonance imaging.
2. Outline the steps and parameters of magnetic resonance image production.
3. Summarize magnetic resonance imaging procedures including anatomy, set-up, and contrast media.
4. Evaluate magnetic resonance image quality.
Course Additions

5. Justify the implementation of magnetic resonance imaging quality control procedures.

Discussions with affected departments:
NA

Proposed by: Patti Ward

Expected Implementation: Fall 2017
### Course Additions

**RADS 471**  
**Credit Hours**: 3  
**Course Title**: Applied Computed Tomography  
**Abbreviated Title**: Applied CT  
**Contact hours per week**:  
- **Lecture**: 3  
- **Lab**: 0  
- **Field**: 0  
- **Studio**: 0  
- **Other**: 0  
**Type of Instructional Activity**: Lecture  
**Academic engagement minutes**: 2250  
**Student preparation minutes**: 4500  
**Intended semesters for offering this course**:  
- Fall [ ]  
- J-Term [ ]  
- Spring [✓]  
- Summer [ ]  
**Intended semester to offer course 1st time**: Spring 2018  
**Number of times course may be taken for credit**: 1  
**Essential Learning Course**: Yes [✓]  
**Prerequisites**: Yes [✓]  
**Prerequisite for other course(s)**: Yes [✓]  
**Co-requisites**: Yes [✓]  
**Requirement or listed choice for any program of study**: Yes [✓]  
**Course is a requirement for a new program**: Yes [✓]  
**Course description for catalog**:  
Continuation of RADS 461. Development of knowledge and cognitive skills underlying the intelligent performance of tasks typically required of technologists who perform computed tomography procedures. Includes patient care and safety, imaging procedures, and image assessment. Does not include clinical experience.  
**Justification**:  
This is an existing course in the BAS. The prefix and course number have been changed to align with the recently approved BSRS. This course will also be part of the new CT professional certificate.  
**Topical course outline**:  
1. Patient Assessment and Preparation  
2. Imaging Procedures  
3. Image Processing  
4. Image Quality  
5. Artifact Recognition and Reduction  
**Student Learning Outcomes**:  
1. Outline potential patient care issues in computed tomography.  
2. Summarize computed tomography procedures including anatomy, contrast media, and protocols.  
3. Relate computed tomography instrumentation to computed tomography images.  
4. Evaluate the quality of computed tomography images.  
5. Compensate for computed tomography image artifacts.  
**Discussions with affected departments**:  

---

**UCC Minutes 02/23/2017. Approved via email on 3/7/17.**
### Course Additions

<table>
<thead>
<tr>
<th>NA</th>
</tr>
</thead>
</table>

| Proposed by: | Patti Ward | Expected Implementation: | Fall 2017 |

Course Modifications

RADS 461

Intended semester to offer modified course for the 1st time: Spring 2018

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<thead>
<tr>
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<th>Proposed</th>
</tr>
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<tbody>
<tr>
<td>Course Prefix:</td>
<td>RADS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>461</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>2</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Principles of Computed Tomography</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
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</table>

Prerequisites:

Current: 

Proposed: Acceptance into BSRS program
or BAS program
or CT Certificate program

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Health Sciences  BAS,  Radiologic Technology:  3621

Course is a requirement for a new program:

BSRS (UCC Approved 1/26/17)Professional Certificate in Computed Tomography

Justification:

This course will be part of the BSRS, BAS, and certificate in computed tomography. This course was approved as a course addition on 1/26/17. By error acceptance into the certificate program was not included as a prerequisite for registering for this course, so the course modification is to adjust the prerequisite.

Proposed by: Patti Ward  Expected Implementation: Fall 2017
Course Modifications

RTEC 480

Intended semester to offer modified course for the 1st time: Fall 2017

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<tr>
<td>Course Prefix: RTEC</td>
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<td>Course No.: 480</td>
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</tr>
<tr>
<td>Credit Hours: 3</td>
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<td>Course Title: Clinical Specialization I</td>
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</tr>
<tr>
<td>Contact hours: Lecture Lab 10</td>
<td>Lab 12</td>
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<tr>
<td></td>
<td>Field</td>
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<tr>
<td></td>
<td>Studio</td>
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<td></td>
<td>Other</td>
</tr>
<tr>
<td>Engage Min.: 7500</td>
<td>9000</td>
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<tr>
<td>Prep Min.: 3750</td>
<td>4500</td>
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<td>Times for Credit: 1</td>
<td>1</td>
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<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td>Current: RTEC 450, 452, 454, and 456</td>
<td>Proposed: Prerequisite RADS 460 or 461</td>
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<tr>
<td>or</td>
<td>Can be taken concurrently</td>
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</table>

Description for catalog:

Current: Demonstration of clinical competency in Radiologic Technology specialty areas. Practical experience gained and demonstrations of competency in positioning, machine control, patient care and image quality in chosen specialty.

Proposed: Demonstration of clinical competency in Radiologic Science imaging modality. Practical experience gained and demonstrations of competency in positioning, machine control, patient care and image quality in chosen modality.

Requirement or listed choice for any program of study: Yes ☑ No ☐

Change affects program sheet or grad requirements: Yes ☑ No ☐

Course is a requirement for a new program:

- Professional Certificate in Computed Tomography
- Professional Certificate in Magnetic Resonance Imaging

Justification:

In RTEC 480 and 490 students selected from one of four specializations (modalities). The current course outline includes two modalities that are being deleted (mammography and cardiac/vascular interventional). These courses are being deleted due to low enrollement. The course descriptions and student learning outcomes needed to be updated. Prerequisites for 490 remain the same, except for deletions of two modalities. The credit hours were increased from 3 to 4. When the course was offered for 3 credits, the ratio used was 50 hours to 1 credit. For consistency and to meet minimum requirements, the ratio of 45 hours to 1 credit is proposed. The additional credit gives students the time in clinical to meet competency requirements for the national registration and certification examination. The prefix has been changed to align with the recently approved BSRS.

Topical course outline, current:

1. Clinical Education Mammography
   A. Cooperative Work Experience
      1. Perform various mammographic procedures for ARRT competencies.

Course Modifications

2. Set up equipment for procedures
3. Patient Care Procedures
   1. Scheduling
   2. Patient Education
   4. Image Critique Skills
B. Quality Assurance in Mammography

2. Clinical Education - Cardiac/Vascular-Interventional
   A. Cooperative Work Experience
      1. Perform various Cardiac/Vascular-Interventional procedures for ARRT competencies.
      2. Set up equipment for procedures
      3. Patient Care Procedures
         a. Patient Education
         b. Sterile Technique
         c. Venipuncture
         d. Patient Safety
      4. Image Critique Skills
   B. Quality Assurance in C/VI

3. Clinical Education - Computed Tomography
   A. Cooperative Work Experience
      1. Perform various Computed Tomography procedures for ARRT competencies
      2. Set up equipment for procedures
      3. Patient Care Procedures
         1. Scheduling
         2. Patient Education
      4. Image Critique Skills
   B. Quality Assurance in CT

4. Clinical Education in Magnetic Resonance
   A. Cooperative Work Experience
      1. Perform various MR procedures for ARRT competencies
      2. Set up equipment for procedures
      3. Patient Care Procedures
         1. Scheduling
         2. Patient Safety
         3. Patient Education
      4. Image Critique Skills
   B. Quality Assurance in MR

Topical course outline, proposed:

I. Clinical Experience
II. Patient Safety
III. Image Analysis
IV. Quality Control

Student Learning Outcomes, current:

1. Demonstrate competency in discipline procedures.
2. Describe and perform sterile technique procedures.
3. Describe and perform specialized procedures related to the discipline.
5. Identify pathology related to imaging in the specialty.
7. Perform quality control test procedures on the equipment and quality assurance as related to the discipline.
Course Modifications

Student Learning Outcomes, proposed:
1. Demonstrate competency in discipline procedures.
2. Describe sterile technique procedures related to the discipline
3. Perform special procedures related to the discipline.
5. Distinguish pathology related to imaging in the specialty.
6. Assess image quality.
7. Perform quality control test procedures.
8. Critically analyze written contributions to the body of knowledge in the radiologic sciences.

Discussions with affected departments:
NA

Proposed by:  Patti Ward  
Expected Implementation:  Fall 2017
**Course Modifications**

**RTEC 490**

Intended semester to offer modified course for the 1st time: Fall 2017

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<td>Course No.:</td>
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<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Clinical Specialization II</td>
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<td>Contact hours:</td>
<td>Lecture, Lab 10, Field, Studio, Other</td>
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<td>Engage Min.:</td>
<td>7500</td>
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<tr>
<td>Prep Min.:</td>
<td>3750</td>
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<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Current: RTEC 450, 452, 454, or 456</td>
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</table>

**Description for catalog:**

Current: Demonstration of clinical competency in the Radiologic Science specialty areas. Practical experience gained and demonstrations of competency in the areas of positioning, machine control, patient care and image quality in the specialty area chosen.

Proposed: Continuation of RADS 480. Demonstration of clinical competency in Radiologic Science imaging modality. Practical experience gained and demonstrations of competency in positioning, machine control, patient care and image quality in chosen modality.

**Requirement or listed choice for any program of study:** Yes ☑ No ☐

**Change affects program sheet or grad requirements:** Yes ☑ No ☐

**Course is a requirement for a new program:** Professional Certificate in Computed Tomography Professional Certificate in Magnetic Resonance Imaging

**Justification:**

In RTEC 480 and 490 students selected from one of four specializations (modalities). The current course outline includes two modalities that are being deleted (mammography and cardiac/vascular interventional). These courses are being deleted due to low enrollement. The course descriptions and student learning outcomes needed to be updated. RADS 480 was added as a prerequisite, because RADS 490 is a continuation of RADS 480. Additional prerequisites for 490 remain the same, except for deletions of two modalities. The credit hours were increased from 3 to 4. When the course was offered for 3 credits, the ratio used was 50 hours to 1 credit. For consistency and to meet minimum requirements, the ratio of 45 hours to 1 credit is proposed. The additional credit gives students the time in clinical to meet competency requirements for the national registration and certification examination. The prefix has been changed to align with the recently approved BSRS.

**Topical course outline, current:**
Course Modifications

1. Clinical Education Mammography
   A. Cooperative Work Experience
      1. Perform various mammographic procedures for ARRT competencies.
      2. Set up equipment for procedures
      3. Patient Care Procedures
         1. Scheduling
         2. Patient Education
         4. Image Critique Skills
   B. Quality Assurance in Mammography

2. Clinical Education - Cardiac/Vascular-Interventional
   A. Cooperative Work Experience
      1. Perform various Cardiac/Vascular-Interventional procedures for ARRT competencies.
      2. Set up equipment for procedures
      3. Patient Care Procedures
         a. Patient Education
         b. Sterile Technique
         c. Venipuncture
         d. Patient Safety
      4. Image Critique Skills
   B. Quality Assurance in C/VI

3. Clinical Education - Computed Tomography
   A. Cooperative Work Experience
      1. Perform various Computed Tomography procedures for ARRT competencies
      2. Set up equipment for procedures
      3. Patient Care Procedures
         1. Scheduling
         2. Patient Education
         4. Image Critique Skills
   B. Quality Assurance in CT

4. Clinical Education in Magnetic Resonance
   A. Cooperative Work Experience
      1. Perform various MR procedures for ARRT competencies
      2. Set up equipment for procedures
      3. Patient Care Procedures
         1. Scheduling
         2. Patient Safety
         3. Patient Education
      4. Image Critique Skills
   B. Quality Assurance in MR

Topical course outline, proposed:
I. Clinical Experience
II. Patient Safety
III. Image Analysis
IV. Quality Control

Student Learning Outcomes, current:
1. Demonstrate competency in discipline procedures.
2. Describe and perform sterile technique procedures.
3. Describe and perform specialized procedures related to the discipline.
5. Identify pathology related to imaging in the specialty.

Course Modifications

7. Perform quality control test procedures on the equipment and quality assurance as related to the discipline.

Student Learning Outcomes, proposed:

1. Demonstrate competency in discipline procedures.
2. Describe sterile technique procedures related to the discipline.
3. Perform special procedures related to the discipline.
5. Distinguish pathology related to imaging in the specialty.
6. Assess image quality.
7. Perform quality control test procedures.
8. Critically analyze written contributions to the body of knowledge in the radiologic sciences.

Proposed by: Patti Ward

Expected Implementation: Fall 2017
### Course Modifications

**RTEC 495**

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<td>Requirement or listed choice for any program of study:</td>
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<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
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</table>

**Justification:**

This change made to align with changes in prefix for the BAS in Radiologic Sciences

**Discussions with affected departments:**

NA

Proposed by: Patti Ward

**Expected Implementation:** Fall 2017
Course Deletions

RTEC 320

Credit Hours  2

Course Title:  Informatics in Radiologic Science

Essential Learning Course:  Yes  ☐  No  ☑

Requirement or listed choice for any program of study:  Yes  ☐  No  ☑

Prerequisite for other course(s):  Yes  ☐  No  ☑

Co-requisite for other course(s):  Yes  ☐  No  ☑

Justification:
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Proposed by:  Patti Ward

Expected Implementation:  Fall 2017

### Course Deletions

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Essential Learning Course</th>
<th>Requirement or listed choice for any program of study</th>
<th>Prerequisite for other course(s)</th>
<th>Co-requisite for other course(s)</th>
<th>Proposed by</th>
<th>Expected Implementation</th>
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<td>RTEC 325</td>
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<td>Yes</td>
<td>Patti Ward</td>
<td>Fall 2017</td>
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</table>

**Justification:**
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Course Deletions

RTEC 327       Credit Hours  2

Course Title:    Cross Sectional Anatomy II

Essential Learning Course:  Yes   No   ☑

Requirement or listed choice for any program of study:  Yes   No   ☑

Prerequisite for other course(s):  Yes   No   ☑

Co-requisite for other course(s):  Yes   No   ☑

Justification:
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Proposed by:   Patti Ward
Expected Implementation:  Fall 2017

**Course Deletions**

<table>
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<tr>
<th>Course Title:</th>
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</tr>
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<td>Requirement or listed choice for any program of study:</td>
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<td>Prerequisite for other course(s):</td>
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</tr>
<tr>
<td>Co-requisite for other course(s):</td>
<td>Yes ☑ No ☐</td>
</tr>
</tbody>
</table>

**Justification:**
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2017
Course Title: Specialization: Mammography I

Essential Learning Course: Yes ☐ No ☑

Requirement or listed choice for any program of study: Yes ☐ No ☑

Prerequisite for other course(s): Yes ☑ No ☐

RTEC 470, RTEC 480, RTEC 490

Co-requisite for other course(s): Yes ☐ No ☑

Justification:
For several years this course has been cancelled due to lack of enrollment and will no longer be offered as a specialization.

Proposed by: Patti Ward

Expected Implementation: Fall 2017
## Course Deletions

**RTEC 452**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>2</th>
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</thead>
</table>

**Course Title:** Specialization: C/V Interventional Technology I

**Essential Learning Course:** Yes [X] No [ ]

**Requirement or listed choice for any program of study:** Yes [X] No [ ]

**Prerequisite for other course(s):** Yes [X] No [ ]

- RTEC 472, RTEC 480, RTEC 490

**Co-requisite for other course(s):** Yes [X] No [ ]

**Justification:**

For several years this course has been cancelled due to lack of enrollment and will no longer be offered as a specialization.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2017
**Course Deletions**

<table>
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<tr>
<th>Course Deletions</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>RTEC 454</td>
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</table>

**Course Title:** Specialization: Computed Tomography I

**Essential Learning Course:** Yes ☐ No ☑

**Requirement or listed choice for any program of study:** Yes ☐ No ☑

**Prerequisite for other course(s):** Yes ☐ No ☑

- RTEC 476

**Co-requisite for other course(s):** Yes ☐ No ☑

**Justification:**

To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, the course has been renamed.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2017

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Course Deletions

RTEC 456
Credit Hours 2

Course Title: Specialization: Magnetic Resonance I
Essential Learning Course: Yes ☐ No ☑
Requirement or listed choice for any program of study: Yes ☐ No ☑
Prerequisite for other course(s): Yes ☐ No ☑
Co-requisite for other course(s): Yes ☐ No ☑

Justification:
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Proposed by: Patti Ward
Expected Implementation: Fall 2017

Course Deletions

RTEC 460  Credit Hours  3

Course Title: Quality Management and Health Care Law

Essential Learning Course: Yes ☐ No ☑

Requirement or listed choice for any program of study: Yes ☐ No ☑

Prerequisite for other course(s): Yes ☐ No ☑

Co-requisite for other course(s): Yes ☐ No ☑

Justification:
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Proposed by: Patti Ward  Expected Implementation: Fall 2018
Course Deletions

RTEC 470  Credit Hours  3

Course Title: Specialization: Mammography II

Essential Learning Course: Yes ☐ No ☑

Requirement or listed choice for any program of study: Yes ☐ No ☑

Prerequisite for other course(s): Yes ☐ No ☑

Co-requisite for other course(s): Yes ☐ No ☑

Justification:
For several years this course has been cancelled due to lack of enrollment and will no longer be offered as a specialization.

Proposed by: Patti Ward  Expected Implementation: Fall 2017
**Course Deletions**

**RTEC 472**  
Credit Hours 3

<table>
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<tr>
<th>Course Title:</th>
<th>Specialization: C/V Interventional Technology II</th>
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<tbody>
<tr>
<td>Essential Learning Course:</td>
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<td>Prerequisite for other course(s):</td>
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<tr>
<td>Co-requisite for other course(s):</td>
<td>Yes ☐ No ☑</td>
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**Justification:**
For several years this course has been cancelled due to lack of enrollment and will no longer be offered as a specialization.

Proposed by: Patti Ward  
Expected Implementation: Fall 2017
### Course Deletions

**RTEC 474**

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<th>Credit Hours</th>
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</table>

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Specialization: Computed Tomography II</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Essential Learning Course:</th>
<th>Yes ☑ No ☐</th>
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<tbody>
<tr>
<td>Requirement or listed choice for any program of study:</td>
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<table>
<thead>
<tr>
<th>Prerequisite for other course(s):</th>
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<tbody>
<tr>
<td>Co-requisite for other course(s):</td>
<td>Yes ☑ No ☐</td>
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#### Justification:

To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, the course has been renamed.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2017

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### Course Deletions

**RTEC 476**  
Credit Hours: 3

<table>
<thead>
<tr>
<th>Course Title:</th>
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</thead>
<tbody>
<tr>
<td>Essential Learning Course:</td>
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<td>Requirement or listed choice for any program of study:</td>
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<td>Prerequisite for other course(s):</td>
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<tr>
<td>Co-requisite for other course(s):</td>
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**Justification:**
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

**Proposed by:** Patti Ward  
**Expected Implementation:** Fall 2017
## Course Deletions

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Clinical Specialization I</th>
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</thead>
<tbody>
<tr>
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<td>Essential Learning Course:</td>
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<td>Prerequisite for other course(s):</td>
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**Justification:**
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2018

---

Course Deletions

RTEC 490  
Credit Hours  3

Course Title:  Clinical Specialization II
Essential Learning Course:  Yes  ☑  No  ☐
Requirement or listed choice for any program of study:  Yes  ☑  No  ☐
Prerequisite for other course(s):  Yes  ☑  No  ☐
Co-requisite for other course(s):  Yes  ☑  No  ☐

Justification:
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

Proposed by:  Patti Ward  
Expected Implementation:  Fall 2018

**Course Deletions**

**RTEC 494**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>3</th>
</tr>
</thead>
</table>

**Course Title:** Capstone in Radiologic Science

**Essential Learning Course:** Yes ☑ No ☐

**Requirement or listed choice for any program of study:** Yes ☑ No ☐

**Prerequisite for other course(s):** Yes ☑ No ☐

**Co-requisite for other course(s):** Yes ☑ No ☐

**Justification:**
To align the BAS with the new BSRS program, all BAS courses have new prefixes and most have new course numbers. Additionally, several of the courses have been renamed and the credits have been modified.

**Proposed by:** Patti Ward

**Expected Implementation:** Fall 2018
Program Modification

Radiologic Technology: 3621

Degree Type: BAS

Modified Program Name: Radiologic Sciences

Modified Program Name: Rad Sc

Revision to program sheet: Yes ☑ No ☐

Description of modification:

The name of the program is being changed from Radiologic Technology to Radiologic Sciences and all prefixes changed from RTEC to RADS. Some courses (RADS 452, RADS 453, RADS 461, RADS 462, and RADS 463) were recently approved for the Bachelor of Science in Radiologic Sciences. Clinical I and II (RADS 480 and 490) were changed from 3 credits to 4 credits each. The original courses were based on a 50 to 1 ratio. The modified courses are based on the recommended 45 to 1 ratio. To offset this change, one credit hour was added. RADS 460, RADS 470, and RADS 471 remain the same; except for course name, prefix, and updated course description changes.

Justification:

The Radiologic Sciences (formally Radiologic Technology) Program is undergoing a number of changes that effect each other. The program deleted the associate degree and replaced it with a Bachelor of Science in Radiologic Sciences (BSRS). Some courses (RADS 452, RADS 453, RADS 461, RADS 462, and RADS 463) in the BSRS will be offered online concurrent with students enrolled in the BAS. Additionally, Radiologic Sciences intends to offer two advanced imaging, professional certificates. RADS 452, RADS 460, RADS 461, RADS 470, RADS 471, RADS 480, and RADS 490 will be offered online concurrent with students enrolled in the BAS.

Response to Program Modification, BAS Rad Science

| Accepted from AAS | 36 credits |
| Essential learning | 31 credits |
| Wellness requirement | 2 credits |
| EL Capstone | 4 credits |
| Foundation courses | 15 credits |
| Upper division (core/electives) | 33 credits - met |

Total credits: 121 credits

Revision to SLOs: Yes ☑ No ☐

Other changes: Yes ☑ No ☐

Compliance with contact/credit hour policy

Discussions with affected departments:

NA

Proposed by: Patti Ward

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Deletion

Department: Health Sciences-Radiologic Sciences
Degree Type: AAS
Program: Radiologic Technology: 1621

Justification:
The Associate of Applied Science in Radiologic Technology (AAS in RT) is being deleted, so it can be replaced by a Bachelor of Science in Radiologic Sciences (BSRS). There are not enough clinical placements in the Western Slope area to support two on-campus radiography programs. Demand for the AAS program has been high, with 60 to 100 applicants each year. CMU also offers a Bachelor of Applied Science in RT (BAS in RT). To be accepted in the fully online BAS in RT program, applicants must be ARRT registered radiologic technologists in good standing. Additionally, students must have an associate or higher degree from an accredited institution of higher learning or have completed the essential learning for an associate degree. The majority of graduates from this program are graduates of the CMU AAS in RT. CMU is strategically in the best position to offer the BSRS. Other than the BAS in RT program, there are no similar programs within the state. There are two proprietary programs, five community college programs, and one hospital-based program. Each of these award an associate degree. The fully online BAS in RT will continue to be offered by CMU, allowing opportunity for graduates of associate degree RT programs in Colorado and other states to earn a bachelor degree. Employers from the region provided letters of support for the AAS in RT to be replaced by the BSRS. During the CMU Radiologic Technology Program Advisory Committee meeting all members of the committee strongly supported the change.

Teach-out Plan:
Students in the 2016-2018 cohort will complete the AAS program without interruption and graduate spring 2018. The new BSRS program begins with the first cohort fall 2017. Essentially there is no 'teachout', as students must pass RT core courses to continue in the program.

Fall 2016 to Spring 2018 cohort
Fall 2017
RTEC 224 Clinical Experience IV
RTEC 251 Radiographic Pathology
RTEC 255 Radiographic Assessment I

Spring 2018
RTEC 234 Clinical Experience V
RTEC 261
RTEC 265

Fall 2017 to Spring 2019 BSRS cohort
Fall 2017
RADS 320 Introduction to Radiologic Technology and Patient Care
RADS 320L Introduction to Radiologic Technology and Patient Care Lab
RADS 321 Radiographic Anatomy and Positioning I
RADS 321L Radiographic Anatomy and Positioning I Lab
RADS 322 Principles of Radiographic Exposure I
RADS 322L Principles of Radiographic Exposure I Lab
RADS 323 Digital Imaging

Term and year in which all students will have completed: Spring 2018
Year to reexamine program's status: NA

Proposed by: Patti Ward
Director of Teacher Education Signature:
Course Modifications

KINA 102

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>KINA</td>
</tr>
<tr>
<td>Course No.:</td>
<td>102</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>1</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Advanced Swimming</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study:</td>
<td>Yes</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Justification:
It is my belief that removing the tag "advanced" and changing it to "intermediate" will encourage more students to sign up for the course. It will be less intimidating of a title.

Proposed by: Logan Pearsall
Expected Implementation: Fall 2017
Program Modification

English-Literature: 3212

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Delete the phrase "All English majors must maintain at least a 3.0 average in their upper division ENGL courses."

Justification:
Modifying the GPA requirement will (1) bring us in line with most of the academic programs on campus, (2) allow more students to graduate on time, thus saving students money, and (3) reduce grade inflation by expecting more of C work.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
n/a

Proposed by: Jennifer R Hancock

Director of Teacher Education Signature: 

Expected Implementation: Fall 2017
Program Modification

English-Secondary Education: 3213

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Delete the phrase "All English majors must maintain at least a 3.0 average in their upper division ENGL courses."

Justification:
Modifying the GPA requirement would (1) bring us in line with most of the academic programs on campus, (2) allow more students to graduate on time, thus saving students money, (3) reduce grade inflation by expecting more of C work.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
Discussed with and approved by Blake Bickham on 1/27/2017.

Proposed by: Jennifer R Hancock

Director of Teacher Education Signature: Blake Bickham

Expected Implementation: Fall 2017
Program Modification

English-Writing: 3215

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Delete the phrase "All English majors must maintain at least a 3.0 average in their upper division ENGL courses."

Justification:
Modifying the GPA requirement will (1) bring us in line with most of the academic programs on campus, (2) allow more students to graduate on time, thus saving students money, and (3) reduce grade inflation by expecting more of C work.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
NA

Proposed by: Jennifer R Hancock

Director of Teacher Education Signature: 

Expected Implementation: Fall 2017
M357 Documentary & News Producing

Contact hours per week: Lecture 3, Lab, Field, Studio, Other

Type of Instructional Activity: Lecture

Student preparation minutes: 4500

Intended semesters for offering this course: Fall, Spring, Summer

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes

Prerequisites: Yes

Prerequisite for other course(s): Yes

Co-requisites: Yes

Requirement or listed choice for any program of study: Yes

Overlapping content with present courses offered on campus: Yes

Additional faculty FTE required: Yes

Additional equipment required: Yes

Additional lab facilities required: Yes

Course description for catalog:

Creation of multimedia content for students to develop their skills as producers, researchers, interviewers, writers, and videographers, as well as on-camera and voice talent. The focus of study will be on analyzing and practicing the aesthetic and technical elements of documentary and news content in order to create original stories for broadcast, print, and web.

Justification:

To broaden students options by offering the opportunity to create content for their portfolios.

Topical course outline:

1. Themes of documentary production.
2. Delivery of news for multimedia.
3. Communication theories.
4. Producing content for media outlets.
5. Production skills for video content.
6. Writing for dynamic news content.
7. Multimedia formats for news.

Student Learning Outcomes:

(Critical Thinking) Evaluate and apply diversity, objectivity, and balance to any form of mass communication.

(Communication Fluency) Write compelling content that demonstrates proper grammar, well-organized
Course Additions

facts, and story-telling techniques for a variety of media.
(Quantitative Fluency) Determine validity of sources and research techniques and interpret data.

Discussions with affected departments:
NA

Proposed by: Eric Sandstrom    Expected Implementation: Fall 2017
**Course Modifications**

MASS 144  

**Intended semester to offer modified course for the 1st time:** Fall 2017  

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MASS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>144</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Multimedia Storytelling</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
</tbody>
</table>
  *Current: MASS 110 and MASS 142, or consent of instructor*  
  *Proposed: MASS 110 or consent of instructor* |
| Requirement or listed choice for any program of study: | Yes ☑ No ☐ |
| Change affects program sheet or grad requirements: | Yes ☑ No ☐ |

**Justification:**  
MASS 142 is being deleted; this course modification removes 142 as a prerequisite.

---

**Proposed by:** Julie Barak  
**Expected Implementation:** Fall 2017
Course Modifications

MASS 213

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix: MASS</td>
<td></td>
</tr>
<tr>
<td>Course No.: 213</td>
<td></td>
</tr>
<tr>
<td>Credit Hours: 3</td>
<td></td>
</tr>
<tr>
<td>Course Title: Introduction to Media Writing and Reporting</td>
<td></td>
</tr>
<tr>
<td>Times for Credit: 1</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td>Current: MASS 140, MASS 142, and MASS 144, or consent of instructor</td>
<td>Proposed: MASS 140 and 144, or consent of instructor</td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study: Yes ☑ No □</td>
<td></td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements: Yes ☑ No □</td>
<td></td>
</tr>
</tbody>
</table>

Justification:
MASS 142 is being deleted; this course modification removes 142 as a prerequisite.

Proposed by: Julie Barak
Expected Implementation: Fall 2017
# Course Modifications

**MASS 251**

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MASS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>251</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Mass Media: Advertising and Promotions</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

**Prerequisites:**

- Current: MASS 140, MASS 142, MASS 144 or Consent of Instructor
- Proposed: MASS 140 and MASS 144 or consent of instructor

Requirement or listed choice for any program of study: Yes [☑]  No [ ]
Change affects program sheet or grad requirements: Yes [ ]  No [☑]

**Justification:**

MASS 142 is being deleted; this course modification removes 142 as a prerequisite.

Proposed by: Julie Barak

Expected Implementation: Fall 2017
Course Modifications

MASS 261

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix: MASS</td>
<td></td>
</tr>
<tr>
<td>Course No.: 261</td>
<td></td>
</tr>
<tr>
<td>Credit Hours: 4</td>
<td>3</td>
</tr>
<tr>
<td>Course Title: Audio Announcing and Production</td>
<td></td>
</tr>
<tr>
<td>Engage Min.: 3000</td>
<td>2250</td>
</tr>
<tr>
<td>Prep Min.: 6000</td>
<td>4500</td>
</tr>
<tr>
<td>Times for Credit: 1</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td>Current: Mass 140, 142, and 144 or Consent of Instructor</td>
<td>Proposed: MASS 140 and MASS 143 or consent of instructor</td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study: Yes □ No □</td>
<td>Requirement or listed choice for any program of study: Yes □ No □</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements: Yes □ No □</td>
<td>Change affects program sheet or grad requirements: Yes □ No □</td>
</tr>
</tbody>
</table>

Justification:
At some time in the past, the number of credits on the course was increased to four. As far as we know, the content did not change at that time. We are submitting the request to return the credit hours to the University standard of three for this type of course. We are also modifying the prerequisites for the course to account for the deletion of MASS 142 from the curriculum.

Proposed by: Julie Barak

Expected Implementation: Fall 2017
Course Modifications

MASS 397

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MASS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>397</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>1</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Practicum</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td>Current: MASS 140, MASS 142, MASS 144 or consent of instructor</td>
<td></td>
</tr>
<tr>
<td>Proposed: MASS 140 and MASS 144 or consent of instructor</td>
<td></td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study:</td>
<td>Yes</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Justification:

MASS 142 is being deleted; this course modification removes 142 as a prerequisite.

Proposed by: Julie Barak

Expected Implementation: Fall 2017
### Course Modifications

**MASS 452**

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MASS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>452</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Designing for Brand and Message</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐

Change affects program sheet or grad requirements: Yes ☑ No ☐

**Justification:**

MASS 142 is being deleted; this course modification removes 142 as a prerequisite.

---

**Proposed by:** Julie Barak  
**Expected Implementation:** Fall 2017
Course Modifications

MASS 494

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>MASS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>494</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>4</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Seminar, Theory and Research</td>
</tr>
<tr>
<td>Engage Min.:</td>
<td>3000</td>
</tr>
<tr>
<td>Prep Min.:</td>
<td>6000</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study:</td>
<td>Yes ☑ No ☐</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes ☑ No ☐</td>
</tr>
</tbody>
</table>

LLMC BA, Mass Communication-Media Strategies and Applications: 3256

Justification:

At some time in the past, the number of credits on the course was increased to four. As far as we know, the content did not change at that time. We are submitting the request to return the credit hours to the University standard of three for this type of course.

Proposed by: Julie Barak

Expected Implementation: Fall 2017
Course Modifications

MASS 499

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>499</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>5-12</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Internship</td>
</tr>
<tr>
<td>Engage Min.:</td>
<td>3750-</td>
</tr>
<tr>
<td>Prep Min.:</td>
<td>7500-</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

LLMC BA, Mass Communication-Media Strategies and Applications: 3256

Justification:
Recent Program Review suggested trimming the number of credits in the Major. Requiring fewer internship hours is one way to do that. Most of the X99 Internships in other departments have fully flexible credit hours, so this will fall in line with University norms, as well.

Proposed by: Julie Barak  Expected Implementation: Fall 2017
Course Deletions

MASS 142  
Credit Hours  3  
Course Title:  Software Applications  
Essential Learning Course:  Yes  ☑  No  ☐  
Requirement or listed choice for any program of study:  Yes  ☑  No  ☐  
LLMC  BA,  Mass Communication-Media Strategies and Applications:  3256  
Prerequisite for other course(s):  Yes  ☑  No  ☐  
  MASS 144, MASS 213, MASS 251, MASS 261, MASS 452, MASS 397  
Co-requisite for other course(s):  Yes  ☑  No  ☐  

Justification:  
MASS 144 curriculum does not change with the deletion of MASS 142. Its lessons and projects have involved the identical software applications that were taught in MASS 142. The problem with MASS 142 has been that it lacked sufficient work projects to which students could apply the various software. We identified this redundancy and are correcting it by deleting MASS 142.

Expected Implementation:  Fall 2017  

Proposed by:  Eric Sandstrom  
 applicant_id: 5555555555555555555555555555555
Course Deletions

MASS 319

Credit Hours  3

Course Title:  Commercial Copy

Essential Learning Course:  Yes  ☑  No  ☐

Requirement or listed choice for any program of study:  Yes   ☑  No  ☐

LLMC  BA,  Mass Communication-Media Strategies and Applications:  3256

Prerequisite for other course(s):  Yes  ☑  No  ☐

Co-requisite for other course(s):  Yes  ☑  No  ☐

Justification:

Following internal review, faculty concluded that Commercial Copy is an outdated course offering and no longer reflects current needs in the Mass Communication field.

Proposed by:  Julie Barak

Expected Implementation:  Fall 2017
**Course Deletions**

**MASS 343**  
Credit Hours  3

Course Title: Social Media

Essential Learning Course: Yes ☑ No ☐

Requirement or listed choice for any program of study: Yes ☑ No ☐

LLMC BA, Mass Communication-Media Strategies and Applications: 3256

Prerequisite for other course(s): Yes ☑ No ☐

Co-requisite for other course(s): Yes ☑ No ☐

**Justification:**

Following internal review, faculty concluded that MASS 441 covers similar concepts, theory, and work product.

Proposed by: Julie Barak  
Expected Implementation: Fall 2017
**Program Modification**

**Mass Communication-Media Strategies and Applications: 3256**

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Modifications to delete MASS 142, MASS 343, and MASS 319; to add MASS 357; and to adjust credit hours for MASS 494, MASS 499, and MASS 261. Because of this, total Concentration hours are lowered from 50-51 to 44, and Electives hours are adjusted accordingly.

Justification:
Please see course modifications for specific reasons, but generally in response to overall internal and external program review.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

**Discussions with affected departments:**
NA

Proposed by: Julie Barak

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Mass Communication: M250

Degree Type: Minor
Modified Program Name: NA

Revision to program sheet: Yes ☐ No ☒

Description of modification:
We are reducing the number of credit hours for the minor, and reduce number of UD credits needed. Also, we are modifying minor program sheet to reflect accompanying course deletions, additions, and modifications.

Justification:
We are reducing the overall credit hours to align with other minors in the department, and to reflect accompanying course deletions, additions, and modifications.

Revision to SLOs: Yes ☐ No ☒

Other changes: Yes ☐ No ☒

Discussions with affected departments:
NA

Proposed by: Julie Barak
Director of Teacher Education Signature: NA
Expected Implementation: Fall 2017
Course Modifications

FLAS 421

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>FLAS</td>
</tr>
<tr>
<td>Course No.:</td>
<td>421</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Hispanic Poetry</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

Prerequisites:
- **Current**: FLAS 301, FLAS 302, FLAS 303, and FLAS 342, or consent of instructor.
- **Proposed**: FLAS 301, FLAS 302, and FLAS 303, or consent of instructor.

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Justification:
Modification removes an old (deleted) course as a prerequisite. The 2016-17 Catalog doesn't have the course title bolded - please double check this in Catalog copy next year.

Proposed by: Luis Silva-Villar
Expected Implementation: Fall 2017
Program Modification

Spanish: M245

Degree Type: Minor

Revision to program sheet: Yes ☑ No ☐

Description of modification:
We are simplifying the Minor and lowering the number of credit hours needed.

Justification:
After the major overhaul to the Spanish Major program(s) last year, the Minor Program needed to reflect those changes. While we were at it we decided to simplify the requirements both in terms of courses required and total number of credit hours required. This allows a "cafeteria" approach, giving students flexibility in focusing on history, literature, etc., according to their interests and needs. This, and the 21 hour requirement, is in line with Minors across campus.

Revision to SLOs: Yes ☐ No ☑

N/A

Other changes: Yes ☐ No ☑

N/A

Discussion with affected departments:
N/A

Proposed by: Luis Silva-Villar

Director of Teacher Education Signature: N/A

Expected Implementation: Fall 2017
Department: Music

Course Additions

**MUSP 320**  
**Credit Hours**: 1

**Course Title**: Junior Recital

**Abbreviated Title**: Junior Recital

**Contact hours per week**:
- Lecture
- Lab
- Field
- Studio: 2
- Other

**Type of Instructional Activity**: Music: Studio

**Academic engagement minutes**: 1500  
**Student preparation minutes**: 750

**Intended semesters for offering this course**:  
- Fall [✓]  
- J-Term [ ]  
- Spring [ ]  
- Summer [ ]

**Intended semester to offer course 1st time**: Fall 2017

**Number of times course may be taken for credit**: 1

**Essential Learning Course**: Yes [✓]  
No [ ]

**Prerequisites**: Yes [✓]  
No [ ]

**Prerequisite for other course(s)**: Yes [✓]  
No [ ]

**Co-requisites**: Yes [✓]  
No [ ]

- 1 credit of MUSL 300 level

**Requirement or listed choice for any program of study**: Yes [✓]  
No [ ]

**Music BM, Music Performance: 3280**

**Overlapping content with present courses offered on campus**: Yes [✓]  
No [ ]

**Additional faculty FTE required**: Yes [✓]  
No [ ]

**Additional equipment required**: Yes [✓]  
No [ ]

**Additional lab facilities required**: Yes [✓]  
No [ ]

**Course description for catalog**:
Preparation and successful completion of junior-level recital/presentation in the student's concentration. Recital/presentation must be approved by the music faculty and given during the semester in which the student is registered for this course. Required for Music Performance majors. Must include scholarly program notes covering historical aspects, analytical issues, and/or performance considerations of the recital repertory.

**Justification**:
A good public performance ability is a very essential skill for Music Performance majors. Through junior recital, performance major students need to demonstrate the culmination of achievements in proficiency, musicianship, and technical levels addressed after five semesters of applied undergraduate study. Junior recital also helps student gain experience prior to their senior recital.

**Topical course outline**:
Students need to be able to present different styles from Baroque, Classical, Romantic, and/or the 20th Century/Contemporary repertoires.

**Student Learning Outcomes**:
Demonstrate a broad knowledge of musical literature, cultures, principal genres and industry practices in a historical context and develop and express music judgments through solo performances.

**Discussions with affected departments**:
This course is offered for students of Music Department.
Course Additions

Proposed by:  Kristen Yeon-Ji Yun

Expected Implementation:  Fall 2017
**Course Modifications**

**MUSA 130**

<table>
<thead>
<tr>
<th>Current</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
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</tr>
<tr>
<td>Course No.:</td>
<td>130</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>2</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Class Piano I</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

**Description for catalog:**

**Current:** Recommended for music majors, music minors and music theatre majors who are deficient in the piano proficiency skills that are required by their programs of study. Application of scales, chords, transposition, harmonization, sight-reading and development of repertory at the keyboard.

**Proposed:** Introduction of basic keyboard skills including scales, chords, transposition, harmonization, choir warmups, improvisation, and sightreading. Recommended for music majors, music minors and music theatre majors needing piano proficiency skills required by their program of study. Students move at their own pace completing specified sequenced skills.

**Requirement or listed choice for any program of study:** Yes [ ] No [ ]

**Change affects program sheet or grad requirements:** Yes [ ] No [ ]

**Justification:**

Better wording; clarifies what we do in the class.

**Discussions with affected departments:**

Changes discussed by music faculty at retreat meeting 1/16/17 and approved.

**Proposed by:** Lisa Bush and Arthur Houle

**Expected Implementation:** Fall 2017

---

# Course Modifications

**MUSA 131**

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<tbody>
<tr>
<td>Course Prefix:</td>
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<td>Course No.:</td>
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<td>Credit Hours:</td>
<td>2</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Class Piano II</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
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</tbody>
</table>

**Description for catalog:**

**Current:** The student gains further expertise at the keyboard. Prerequisite: MUSA 130 or consent of instructor.

**Proposed:** Continuation of keyboard skills learned in MUSA 130 including experience with arpeggios, chord inversions, different accompaniment styles and ensemble experiences. Students move at their own pace completing specified sequenced skills. Prerequisite: MUSA 130 or consent of instructor.

**Requirement or listed choice for any program of study:**

- Yes ☑️
- No ☐

**Change affects program sheet or grad requirements:**

- Yes ☑️
- No ☐

**Better wording:** clarifies what we do in the class.

**Discussions with affected departments:**

Changes discussed by music faculty at retreat meeting 1/16/17 and approved.

**Proposed by:** Lisa Bush and Arthur Houle

**Expected Implementation:** Fall 2017

---

Course Modifications

MUSA 230

Intended semester to offer modified course for the 1st time: Fall 2018

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<thead>
<tr>
<th>Course Prefix:</th>
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<tr>
<td>Course No.:</td>
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<td>Credit Hours:</td>
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<td>2</td>
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<tr>
<td>Course Title:</td>
<td>Class Piano III</td>
<td>Proposed</td>
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<tr>
<td>Times for Credit:</td>
<td>1</td>
<td>1</td>
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</tbody>
</table>

Description for catalog:

Current: A concentrated study of repertoire in preparation for the piano proficiency exam. Maximum keyboard time will develop coordination and flexibility. Prerequisites: MUSA 130, 131 or consent of instructor.

Proposed: Continuation of concepts covered in MUSA 130 and 131 including minor scales, chords, transposition, playing from lead sheets, improvisation, basic jazz keyboarding skills, sightreading. Prerequisites: MUSA 130, 131 or consent of instructor.

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Justification:
Better wording; clarifies what we do in the class.

Discussions with affected departments:
Changes discussed by music faculty at retreat meeting 1/16/17 and approved.

Proposed by: Lisa Bush and Arthur Houle
Expected Implementation: Fall 2017
## Course Modifications

MUSA 231

<table>
<thead>
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<th>Spring 2018</th>
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<table>
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<tbody>
<tr>
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<tr>
<td>Course Title:</td>
<td>Class Piano IV</td>
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<tr>
<td>Times for Credit:</td>
<td>1</td>
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</table>

**Description for catalog:**

**Current:** A continuation of the concepts introduced in MUSA 230. Reinforcement and new concepts from keyboard skills including minor scales and arpeggios, triad inversions, cadence progressions, harmonization, transposition, repertoire pieces to develop technical facility and knowledge of musical style. Prerequisites: MUSA 230 or consent of instructor.

**Proposed:** Culmination of concepts covered in MUSA 130, 131, and 230. Emphasis on jazz keyboarding skills, reading from open vocal score or instrumental score with transposing parts, creating and playing accompaniments for simple pieces. Prerequisite: MUSA 230 or consent of instructor.

**Requirement or listed choice for any program of study:** Yes [ ] No [ ]

**Change affects program sheet or grad requirements:** Yes [ ] No [ ]

**Justice:**

To provide a full semester of piano study focused on practical skills students will likely need in their professional experiences. To accomplish, this, we need to add skills to our checklist rubric that were not previously required.

**Topical course outline, current:**

- Continuation of concepts needed for completion of piano proficiency
- Playing from lead sheets
- Playing a solo piece as stipulated in the proficiency rubric
- Accompanying a soloist

**Topical course outline, proposed:**

- Continuation of concepts needed for completion of piano proficiency
- Creating simple accompaniments
- Playing from jazz charts
- Reading from open scores - vocal and instrumental with transposing parts
- Playing a solo piece as stipulated in the proficiency rubric
- Accompanying a soloist

**Student Learning Outcomes, current:**

- Hear, identify and realize the elements of music (such as rhythm, melody, harmony, structure, timbre, texture), demonstrating general musicianship and skills appropriate for the particular music concentration.
- Demonstrate keyboard competency at the level determined by the piano proficiency requirements outlined in the Music Student Handbook (which is consistent with this syllabus).

**Student Learning Outcomes, proposed:**

**Discussions with affected departments:**

Changes discussed by music faculty at retreat meeting 1/16/17 and approved.

**Proposed by:** Lisa Bush and Arthur Houle

**Expected Implementation:** Fall 2017
Course Modifications

MUSP 420

Intended semester to offer modified course for the 1st time: Fall 2017

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<td>Senior Recital/Presentation</td>
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<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
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</table>

Requirement or listed choice for any program of study: Yes ☐ No ☐

Change affects program sheet or grad requirements: Yes ☐ No ☐

Music BM, Music Performance: 3280

Justification:
Developing Music Performance majors require more formal performance opportunities. Therefore, we are adding a one (1) credit Junior Recital requirement to the Music Performance program and reducing to only one (1) credit the Senior Recital/Presentation (MUSP 420) currently required. Therefore, the two (2) credit option for Senior Recital/Presentation is no longer necessary.

Topical course outline, current:
NA

Topical course outline, proposed:
NA

Student Learning Outcomes, current:
NA

Student Learning Outcomes, proposed:
NA

Essential Learning SLOs, proposed:
NA

Discussions with affected departments:
Music Department faculty are in agreement regarding this change.

Proposed by: Sean Flanigan

Expected Implementation: Fall 2017
Program Modification

Music Performance: 3280

Degree Type: BM

Revision to program sheet: Yes ☑ No ☐

Description of modification:
1. Stop prescribing MUSA 220 Music Appreciation as the course for the Fine Arts requirement in the Essential Learning category.

2. Currently, Music Performance majors are required to register to MUSP 420-002 Senior Recital/Presentation. Music Department is concurrently proposing modifying MUSP 420-002 and adding MUSP 320-001 Junior Recital. In the program for Music Performance majors, we propose two changes: 
   A) Music Performance majors will be required to register to MUSP 420-001 Senior Recital/Presentation
   B) Music Performance majors will be required to register to MUSP 320-001 Junior Recital (the new course)

Justification:
1. The original intent of prescribing Music Appreciation was to give music students an overview of music history and literature before taking advanced courses in Music History and Literature. Music faculty found that students were underprepared in this area. The music faculty is currently undergoing curriculum changes to expand and strengthen the Music History and Literature sequence, rendering the Music Appreciation course unnecessary for the training of the students. Further, it is believed by the music faculty that music students should have knowledge of and in as many fine and performing arts outside of music to enrich and develop their training.

2. Music Performance majors need to develop their presentation skill at the best shape. Adding Junior Recital in their junior year will give a great opportunity to craft their performing ability before their Senior Recital.

Revision to SLOs: Yes ☑ No ☐

Other changes: Yes ☑ No ☐

Discussions with affected departments:
NA

Proposed by: Calvin Hofer

Director of Teacher Education Signature: N/A

Expected Implementation: Fall 2017
Program Modification

Music Education K-12: 3282

Degree Type:  BME

Revision to program sheet:  Yes ☑ No ☐

Description of modification:
Stop prescribing MUSA 220 Music Appreciation as the course for the Fine Arts requirement in the Essential Learning category.

Justification:
The original intent of prescribing Music Appreciation was to give music students an overview of music history and literature before taking advanced courses in Music History and Literature. Music faculty found that students were underprepared in this area. The music faculty is currently undergoing curriculum changes to expand and strengthen the Music History and Literature sequence, rendering the Music Appreciation course unnecessary for the training of the students. Further, it is believed by the music faculty that music students should have knowledge of and in as many fine and performing arts outside of music to enrich and develop their training.

Revision to SLOs:  Yes ☐ No ☑

Other changes:  Yes ☐ No ☑

Discussions with affected departments:
NA

Proposed by:  Calvin Hofer

Director of Teacher Education Signature:

Expected Implementation:  Fall 2017
## Course Deletions

**BIOL 332**  
Credit Hours: 2

### Course Title:
Introduction to GIS

<table>
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<th>Essential Learning Course</th>
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<th>No</th>
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<tbody>
<tr>
<td>Requirement or listed choice for any program of study</td>
<td>Yes</td>
<td>No</td>
<td>□</td>
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<tr>
<td>Biology BS, Biological Sciences-Ecology, Evolution and Organismal Biology: 3409</td>
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<tr>
<td>Prerequisite for other course(s)</td>
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<td>GEOL 432/432L, GEOL 375/375L, GEOL 321/321L</td>
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<td>Co-requisite for other course(s)</td>
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<td>□</td>
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<tr>
<td>BIOL 332L</td>
<td></td>
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</table>

### Justification:
This course is a cross-listing for GEOL 332. The prefix for that course is being changed to GIST, so the BIOL prefix is no longer needed.

**Proposed by:** Gigi Richard  
**Expected Implementation:** Fall 2017

Course Deletions

BIOL 332L  Credit Hours  1

Course Title:  Introduction to Geographic Information Systems Laboratory

Essential Learning Course:  Yes  ☑  No  ☐

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐

Biology  BS,  Biological Sciences-Ecology, Evolution and Organismal Biology:  3409

Prerequisite for other course(s):  Yes  ☑  No  ☐

GEOL 432/432L, GEOL 375/375L, GEOL 321/321L

Co-requisite for other course(s):  Yes  ☑  No  ☐

BIOL 332

Justification:

This course is a cross-listing for GEOL 332L. The prefix for that course is being changed to GIST, so the BIOL prefix is no longer needed.

Proposed by:  Gigi Richard  Expected Implementation:  Fall 2017
Program Modification

Biological Sciences-Ecology, Evolution and Organismal Biology: 3409

Degree Type: BS

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Prefix for BIOL 332 and 332L were changed to GIST 332 and 332L to reflect change in the course prefix and removing cross-listing.

Justification:
Program prefixes have been changed to GIST to better reflect course and program content. Cross-listing within other programs was not deemed to be useful and may be confusing to students.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
Biological Sciences - 1/25/17 - cross-listing is not useful

Proposed by: G. Richard

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Course Additions

ENGL 325

Credit Hours  3

Course Title: Writing for Engineers
Abbreviated Title: Writing for Engineers

Contact hours per week: Lecture 3 Lab Field Studio Other

Type of Instructional Activity: Lecture

Academic engagement minutes: 2250
Student preparation minutes: 4500

Intended semesters for offering this course: Fall ✓ J-Term □ Spring ✓ Summer □
Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1
Essential Learning Course: Yes □ No ✓

Prerequisites: Yes □ No ✓
Prerequisite for other course(s): Yes □ No ✓
Co-requisites: Yes □ No ✓

Requirement or listed choice for any program of study: Yes ✓ No □
PES BS, Mechanical Engineering Technology: 3453

Overlap content with present courses offered on campus: Yes □ No ✓
Additional faculty FTE required: Yes □ No ✓
Additional equipment required: Yes □ No ✓
Additional lab facilities required: Yes □ No ✓

Course description for catalog:

Development of a set of communication tools by learning how to compose, design, and edit technical documents for the engineering professions. Topics include technical documentation (lab reports, designing of reports, proposals), professional correspondence (emails, memo reports, and team meetings), and verbal and graphical communication of technical data.

Justification:

This course is designed to meet the complex writing expectations of the growing ME/MET and CE programs. Currently, students are taking ENGL 425 Scientific Writing to fulfill the requirements of the degree. However, due to the challenge of teaching CU students (who are not required to take ENGL 111 and ENGL 112), the course is being taught at a much lower level. Thus, there is a need for the English Department to tailor a 300 level course that will meet the varied needs of students, while also teaching Engineering-specific content and fulfilling the requirements of the program.

Topical course outline:

1. Correspondence
2. Research
3. Literature Review
4. Collaborative Writing
5. Designing Lab Reports
6. Communication of Technical Data
7. Proposal
Course Additions

8. Formal Oral Report

Student Learning Outcomes:

1. Identify elements in the standard design for formal and informal documents in the fields of engineering.
2. Apply knowledge of these elements in written, oral, and visual communication.
3. Differentiate the communication needs of a variety of audiences and successfully communicate technical information.
4. Analyze examples of engineering writing and evaluate content for original research.
5. Design original research and present appropriately to the norms of engineering writing.

Discussions with affected departments:

Discussed with Dr. Tim Brower and Dr. Barry Laga 1/27/2017. Both approved course description and SLOs.

Proposed by: Labecca Jones

Expected Implementation: Fall 2017
Course Additions

ENGR 317L
Credit Hours 1

Course Title: Fundamentals of Circuits and Electronics Lab
Abbreviated Title: Fund of Cir & Elect Lab
Contact hours per week: Lecture Lab 2 Field Studio Other

Type of Instructional Activity: Laboratory: Academic/Clinical

Academic engagement minutes: 1500 Student preparation minutes: 750

Intended semesters for offering this course: Fall ☑ J-Term ☐ Spring ☑ Summer ☐

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes ☑ No ☐

Prerequisites: Yes ☑ No ☐
MATH 136 or MATH 152, and PHYS 131/131L

Prerequisite for other course(s): Yes ☑ No ☐

Co-requisites: Yes ☑ No ☐

ENGR 317

Requirement or listed choice for any program of study: Yes ☑ No ☐

PES BS, Mechanical Engineering Technology: 3453

Overlapping content with present courses offered on campus: Yes ☑ No ☐

Additional faculty FTE required: Yes ☑ No ☐

Additional equipment required: Yes ☑ No ☐

Additional lab facilities required: Yes ☑ No ☐

Course description for catalog:
Introduction to resistive circuits, capacitors, inductors, transient analysis, sine waves, AC circuit analysis, resonance, and transformers.

Justification:
Our enrollment has grow enough that the laboratory component of ENGR 317 needs to be separated from the lecture into a new course, ENGR 317L.

Topical course outline:

1. DC Circuits
   - Introduction into SI, measurements, safety.
   - Fundamental quantities; voltage, current and resistance.
   - Ohm's Law, energy and power.
   - Series circuits, parallel circuits and series-parallel circuits.
   - Magnetism and Electromagnetism.
2. AC Circuits
   - Understand alternating voltage and current.
   - Working with capacitors and resistor-capacitor circuits. The first order system.
   - Working with inductors and resistor-inductor circuits. The first order system.
   - Analyze resistor-capacitor-inductor circuits; series and parallel resonance. The second order system.
   - Understanding transformers.
Course Additions

- Survey of time response in circuits containing capacitance and inductance. Focus on integrators and differentiators in steady state circuits.

3. Devices
- Introduction to the diode and the semiconductor PN junction.
- Introduction, study and analysis of transistors and applications. The Bipolar Junction Transistor is analyzed as a switch, Class A, Class B and Class C amplifier. The Field Effect Transistor is introduced studied and analyzed as an amplifier and oscillator.
- The Operational Amplifier is introduced. The input differential amplifier is used to demonstrate the inverting and non inverting inputs. Its characteristics, parameters and analysis are first examined in the ideal case. Then, losses, offsets and other imperfections are added to best model the real case. Negative feedback is studied in order to show common configurations.
- Basic Op-Amp circuits are covered; comparators, summing amplifiers, integrators and differentiators, oscillators, active filters and voltage regulators.
- Special purpose Op-Amp circuits are covered; instrumentation amplifiers, isolation amplifiers, operational transconductance amplifiers, active diode circuits, current sources and converters.
- A measurement section is included which contains; temperature, strain, pressure and flow rate. Sample and hold and analog to digital conversion is demonstrated. Power control and motion measurement are also covered.

Student Learning Outcomes:

per ABET requirements:

1. select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities through the use of solid modeling and data acquisition software tools
2. conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes

Discussions with affected departments:

NA

Proposed by: Scott Kessler  Expected Implementation: Fall 2017
## Course Modifications

**ENGR 317**

Intended semester to offer modified course for the 1st time: **Fall 2017**

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<td>Course No.:</td>
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<tr>
<td>Credit Hours:</td>
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<td>Course Title:</td>
<td>Fundamentals of Circuits and Electronics</td>
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<tr>
<td>Contact hours:</td>
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<td>Lab</td>
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Co-requisites:
- Current: 
- Proposed: ENGR 317L

Description for catalog:


Proposed: Introduction to resistive circuits, capacitors, inductors, transient analysis, sine waves, AC circuit analysis, resonance, and transformers.

Requirement or listed choice for any program of study: Yes ☑ No ☐

Change affects program sheet or grad requirements: Yes ☑ No ☐

**PES BS, Mechanical Engineering Technology: 3453**

Justification:
The course currently has laboratory experiences built in. Our enrollment has grow enough that the laboratory component needs to be separated from the lecture into a new course, ENGR 317L, which is being added.

Student Learning Outcomes, current:

1. select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities through the use of solid modeling and data acquisition software tools
2. conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes

Student Learning Outcomes, proposed:

Discussions with affected departments:

NA
Course Modifications

Proposed by:  Scott Kessler  
Expected Implementation:  Fall 2017
Course Modifications

ENGR 427

Intended semester to offer modified course for the 1st time: Fall 2017

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<tr>
<td>Credit Hours: 2</td>
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<td>Course Title: Engineering Measurements</td>
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<td>Prerequisites:</td>
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<tr>
<td>Current: ENGR 263, ENGR 317, STAT 305, ENGL 425</td>
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<td>Change affects program sheet or grad requirements: Yes</td>
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Justification:
Update prereq for the change in number for ENGL425 to 325.

Discussions with affected departments: NA

Proposed by: Scott Kessler

Expected Implementation: Fall 2017
**Course Modifications**

ENGR 445

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<tr>
<td>Current: ENGR 140, ENGR 312, ENGR 321, ENGR 325, MAMT 115, and ENGL 425</td>
<td>Proposed: ENGR 140, ENGR 312, ENGR 321, ENGR 325, MAMT 115, and ENGL 325</td>
</tr>
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<td>Requirement or listed choice for any program of study: Yes</td>
<td>No</td>
</tr>
<tr>
<td>Change affects program sheet or grad requirements: Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Justification:**

Update prereq for the change in number for ENGL425 to 325.

**Discussions with affected departments:**

NA

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Proposed by: Scott Kessler

Expected Implementation: Fall 2017

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Program Modification

Mechanical Engineering Technology: 3453

Degree Type: BS

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Update BSMET program sheet to change required writing course from ENGL 425 to ENGL 325. Additionally, a laboratory experience is being added to ENGR 317, Fundamentals of Circuits & Electronics.

Justification:
-The current ENGL 425 requirement is being modified to better address the topic of technical communication for CMU’s engineering students. The new course is designed to meet the complex writing expectations of the growing ME/MET and CE programs. Currently, students are taking ENGL 425 Scientific Writing to fulfill the requirements of the degree. However, due to the challenge of teaching CU students (who are not required to take ENGL 111 and ENGL 112), the course is being taught at a lower level. Thus, there is a need for the English Department to tailor a 300 level course that will meet the varied needs of students, while also teaching Engineering-specific content and fulfilling the requirements of the program.
-Our enrollment has grown to a point the laboratory components of the ENGR 317 need to be separated so that smaller groups can be taught in a laboratory setting. The addition of ENGR 317L addresses the issue.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
The modification to the writing requirement for MET has been a joint effort between the engineering and English departments and they are the only two departments involved. Course description and SLOs were discussed with and approved by Dr. Tim Brower and Dr. Barry Laga on 1/27/2017.

Proposed by: Sarah Lanci

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
**Course Additions**

**GEOL 443**  
**Credit Hours**  3

**Course Title:**  Field-Based Depositional Systems  
**Abbreviated Title:**  Depositional Systems  
**Contact hours per week:**  Lecture 3, Lab, Field, Studio, Other

**Type of Instructional Activity:**  Lecture  
**Academic engagement minutes:**  2250  
**Student preparation minutes:**  4500

**Intended semesters for offering this course:**  Fall ✓, J-Term ☐, Spring ☐, Summer ☐  
**Intended semester to offer course 1st time:**  Fall 2017  
**Number of times course may be taken for credit:**  1

**Essential Learning Course:**  Yes ☑, No ☐  
**Prerequisites:**  Yes ☑, No ☐  
**GEOL 202**

**Prerequisite for other course(s):**  Yes ☑, No ☐  
**Co-requisites:**  Yes ☑, No ☐  

**GEOL 443L**

**Requirement or listed choice for any program of study:**  Yes ☑, No ☐

**PES BS, Geosciences-Environmental Geology:**  3473  
**PES BS, Geosciences-Geology:**  3472

**Overlapping content with present courses offered on campus:**  Yes ☑, No ☐

**Additional faculty FTE required:**  Yes ☑, No ☐
**Additional equipment required:**  Yes ☑, No ☐
**Additional lab facilities required:**  Yes ☑, No ☐

**Course description for catalog:**

Analysis of depositional systems with a strong field component. Lectures followed by weekly field trips will show students local examples of all common depositional systems.

**Justification:**

This course uses outstanding local outcrops to reinforce the field-based focus of the geology program and helps fulfill the need for more upper-division restricted electives focused on geology.

**Topical course outline:**

Depositional Systems Overview  
Field Data Collection Review  
Lacustrine Systems  
Carbonate Systems  
Clastic Systems  
Fluvial Braided  
Fluvial Meandering  
Fluvial Fixed Channel  
Eolian  
Shallow Marine - Wave Dominated
**Course Additions**

Shallow Marine - Tide Dominated  
Shallow Marine - Deltaic

**Student Learning Outcomes:**

Collect and interpret geoscience field data (problem-solving skills)  
Write an effective report on a geoscience study (communication skills)

**Discussions with affected departments:**

Geosciences - Change from topics course to permanent status discussed and approved 1/27/17.

**Proposed by:** Lawrence Jones  
**Expected Implementation:** Fall 2017
Course Additions

GEOL 443L

Credit Hours  1

Course Title:  Field-Based Depositional Systems Laboratory

Abbreviated Title:  Depositional Systems Lab

Contact hours per week:  Lecture  Lab  3  Field  Studio  Other

Type of Instructional Activity:  Laboratory: Academic/Clinical

Academic engagement minutes:  1500  Student preparation minutes:  750

Intended semesters for offering this course:  Fall  ☑  J-Term  ☐  Spring  ☐  Summer  ☐

Intended semester to offer course 1st time:  Fall 2017

Number of times course may be taken for credit:  1

Essential Learning Course:  Yes  ☑  No  ☐

Prerequisites:  Yes  ☑  No  ☐

Prerequisite for other course(s):  Yes  ☑  No  ☐

Co-requisites:  Yes  ☑  No  ☐

GEOL 202

GEOL 443

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐

PES BS, Geosciences-Environmental Geology:  3473

PES BS, Geosciences-Geology:  3472

Overlapping content with present courses offered on campus:  Yes  ☑  No  ☐

Additional faculty FTE required:  Yes  ☑  No  ☐

Additional equipment required:  Yes  ☑  No  ☐

Additional lab facilities required:  Yes  ☑  No  ☐

Course description for catalog:

Analysis of depositional systems with a strong field component. Lectures followed by weekly field trips will show students local examples of all common depositional systems.

Justification:

This course uses outstanding local outcrops to reinforce the field-based focus of the geology program and fulfills the need for more upper division restricted electives focused on geology.

Topical course outline:

Depositional Systems Overview
Field Data Collection Review
Lacustrine Systems
Carbonate Systems
Clastic Systems
Fluvial Braided
Fluvial Meandering
Fluvial Fixed Channel
Eolian
Shallow Marine - Wave Dominated
Shallow Marine - Tide Dominated
Shallow Marine - Deltaic

Student Learning Outcomes:
Course Additions

Collect and interpret geoscience field data (problem-solving skills)
Write an effective report on a geoscience study (communication skills)

Discussions with affected departments:

Geosciences - Change from topics course to permanent status discussed and approved 1/27/17.

Proposed by:  Lawrence Jones  Expected Implementation:  Fall 2017
Course Additions

GIST 422  
Credit Hours  2

Course Title: GIS Data Management and Editing
Abbreviated Title: GIS Data Mngmt & Editing

Contact hours per week: Lecture  2  Lab  Field  Studio  Other

Type of Instructional Activity: Lecture

Academic engagement minutes:  1500  Student preparation minutes:  3000

Intended semesters for offering this course:  Fall  ☑  J-Term  ☐  Spring  ☐  Summer  ☐
Intended semester to offer course 1st time:  Fall 2017
Number of times course may be taken for credit:  1

Essential Learning Course:  Yes  ☑  No  ☐
Prerequisites:  Yes  ☑  No  ☐

GIST 332/332L
Prerequisite for other course(s):  Yes  ☑  No  ☐
Co-requisites:  Yes  ☑  No  ☐

GIST 422L

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐
PES  Minor,  Geographic Information Science and Technology:  M752
PES  Prof Cert,  Geographic Information Science and Technology:  1770

Overlapping content with present courses offered on campus:  Yes  ☑  No  ☐

Additional faculty FTE required:  Yes  ☑  No  ☐
Additional equipment required:  Yes  ☑  No  ☐
Additional lab facilities required:  Yes  ☑  No  ☐

Course description for catalog:
Further exploration of GIS, involving creating, editing, and managing geospatial data and working with different types of GIS software. Two one-hour lectures and one two-hour laboratory per week.

Prerequisites: GIST 332/332L

Justification:
This course replaces the former GEOL 445 Geodatabases course, but with a more appropriate number so that the courses sequence properly. This new course is designed to be more flexible and allows the course content to adapt as software changes without having to modify the course.

Topical course outline:
1) Introduction to Geodatabases
2) Creating, editing, and managing geodatabase
3) Editing map using map and geodatabase topology
4) Working with geodatabase domains and subtypes
5) Creating and editing metadata
6) Working with ArcGIS Pro and ArcGIS On-Line

Student Learning Outcomes:
1. Develop a design for creating, managing, and editing a geodatabase.
2. Understand the components and functions of the geodatabase.
3. Create attribute domains and subtypes and use them when editing data.
Course Additions

4. Use the metadata editing interface to add, modify, and update metadata fields.
5. Inspect features by using topology rules to identify and correct errors.

Discussions with affected departments:

PES - discussed w/ Dept. Head Russ Walker. No problem expected.

Proposed by: Verner C. Johnson  
Expected Implementation: Fall 2017
# Course Additions

**GIST 422L**  
Credit Hours 1

**Course Title:** GIS data management and editing laboratory  
**Abbreviated Title:** GIS data mngmt & editing

Contact hours per week:  
**Lecture** Lab **Field** Studio Other 2

Type of Instructional Activity: Laboratory: Academic/Clinical

Academic engagement minutes:  
Student preparation minutes:

Intended semesters for offering this course:  
Fall [✓] J-Term [ ] Spring [ ] Summer [ ]

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes [✓] No [ ]

Prerequisites: Yes [✓] No [ ]

GIST 332/332L

Prerequisite for other course(s): Yes [✓] No [ ]

Co-requisites: Yes [✓] No [ ]

GIST 422

Requirement or listed choice for any program of study: Yes [✓] No [ ]

PES Minor, Geographic Information Science and Technology: M752  
PES Prof Cert, Geographic Information Science and Technology: 1770

Overlapping content with present courses offered on campus: Yes [✓] No [ ]

Additional faculty FTE required: Yes [✓] No [ ]

Additional equipment required: Yes [✓] No [ ]

Additional lab facilities required: Yes [✓] No [ ]

**Course description for catalog:**  
Further exploration of GIS, involving creating, editing, and managing geospatial data and working with different types of GIS software. Two one-hour lectures and one two-hour laboratory per week.  
**Prerequisites:** GIST 332/332L

**Justification:**  
This course replaces the former GEOL 445 Geodatabases course, but with a more appropriate number so that the courses sequence properly. This new course is designed to be more flexible and allows the course content to adapt as software changes without having to modify the course.

**Topical course outline:**

1) Introduction to Geodatabases  
2) Creating, editing, and managing geodatabase  
3) Editing map using map and geodatabase topology  
4) Working with geodatabase domains and subtypes  
5) Creating and editing metadata  
6) Working with ArcGIS Pro and ArcGIS On-Line

**Student Learning Outcomes:**

1. Develop a design for creating, managing, and editing a geodatabase.  
2. Understand the components and functions of the geodatabase.  
3. Create attribute domains and subtypes and use them when editing data.  
4. Use the metadata editing interface to add, modify, and update metadata fields.
Course Additions

5. Inspect features by using topology rules to identify and correct errors.

Discussions with affected departments:

PES - discussed w/ Dept. Head Russ Walker. No problem expected.

Proposed by:  Verner C. Johnson                     Expected Implementation:  Fall 2017
**Course Modifications**

**GEOL 305**

Intended semester to offer modified course for the 1st time: Spring 2018

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>305</td>
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<tr>
<td>Credit Hours:</td>
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<tr>
<td>Course Title:</td>
<td>Cartography for GIS</td>
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<td>Times for Credit:</td>
<td>1</td>
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Requirement or listed choice for any program of study: Yes ☑ No  No ☐

Change affects program sheet or grad requirements: Yes ☑ No ☐

**PES**  Minor,  Geographic Information Science and Technology:  M752
**PES**  Prof Cert,  Geographic Information Science and Technology:  1770

**Justification:**
The GIS courses are not really Geology courses, so it will be more clear for students if the GIS courses have their own prefix.

**Discussions with affected departments:**
**PES - discussion with Dept. Head Russ Walker 1/27/17. No issues. It was his idea.**

Proposed by: Gigi Richard

Expected Implementation: Fall 2017
Course Modifications

GEOL 321

Intended semester to offer modified course for the 1st time: Spring 2018

<table>
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<tr>
<th>Current</th>
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<td>Course Prefix:</td>
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<td>GEOL</td>
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<td>332/332L</td>
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<td>Credit Hours:</td>
<td>2</td>
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<tr>
<td>Course Title:</td>
<td>Introduction to Remote Sensing</td>
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<td>Times for Credit:</td>
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<td>1</td>
<td></td>
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<tr>
<td>Prerequisites:</td>
<td>Current: GEOL, ENVS, BIOL 332/332L</td>
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<td></td>
<td>Proposed: GIST 332/332L</td>
</tr>
<tr>
<td>Co-requisites:</td>
<td>Current: GEOL 321L</td>
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<td></td>
<td>Proposed: GIST 321L</td>
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<tr>
<td>Description for catalog:</td>
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<tr>
<td>Current: Remote sensing systems and applications; characteristics of photographs, scanner and radar imagery interpretation. Two one-hour lectures and one two-hour laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>Proposed: Fundamentals of remotely sensed data, with emphasis on processing and interpretation of Landsat satellite imagery. Two one-hour lectures and one two-hour laboratory per week.</td>
<td></td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study: Yes ☑ No ☐</td>
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<tr>
<td>Change affects program sheet or grad requirements: Yes ☑ No ☐</td>
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<tr>
<td>PES Minor, Geographic Information Science and Technology: M752</td>
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<tr>
<td>PES Prof Cert, Geographic Information Science and Technology: 1770</td>
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</table>

Justification:
The GIS courses are not really Geology courses, so it will be more clear for students if the GIS courses have their own prefix.

Discussions with affected departments:
PES - discussion with Dept. Head Russ Walker 1/27/17. No issues. It was his idea.

Proposed by: Gigi Richard

Expected Implementation: Fall 2017
## Course Modifications

### GEOL 321L

<table>
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<td>Course No.:</td>
<td>321L</td>
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<td>Credit Hours:</td>
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<tr>
<td>Course Title:</td>
<td>Introduction to Remote Sensing Laboratory</td>
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</table>

**Times for Credit:**

Current: 1

Proposed: 1

**Prerequisites:**

Current: GEOL/ENVS/Biol 332/332L

Proposed: GIST 332/332L

**Co-requisites:**

Current: GEOL 321

Proposed: GIST 321

**Description for catalog:**

**Current:** Remote sensing systems and applications; characteristics of photographs, scanner and radar imagery interpretation. Two one-hour lectures and one two-hour laboratory per week.

**Proposed:** Fundamentals of remotely sensed data, with emphasis on processing and interpretation of Landsat satellite imagery. Two one-hour lectures and one two-hour laboratory per week.

**Requirement or listed choice for any program of study:**

- Yes [x] No [ ]

**Change affects program sheet or grad requirements:**

- Yes [x] No [ ]

**PES Minor, Geographic Information Science and Technology:** M752

**PES Prof Cert, Geographic Information Science and Technology:** 1770

**Justification:**

The GIS courses are not really Geology courses, so it will be more clear for students if the GIS courses have their own prefix.

**Discussions with affected departments:**

PES - discussion with Dept. Head Russ Walker 1/27/17. No issues. It was his idea.

**Proposed by:** Gigi Richard

**Expected Implementation:** Fall 2017
Course Modifications

GEOL 332

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
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<tbody>
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<td>GIST</td>
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<tr>
<td>Course No.: 332</td>
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<td>Credit Hours: 2</td>
<td></td>
</tr>
<tr>
<td>Course Title:</td>
<td></td>
</tr>
<tr>
<td>Introduction to Geographic Information Systems</td>
<td>Proposed: Fundamentals of GIS and digital mapping, including basic GIS skills and an introduction to geospatial databases and analyses. Two one-hour lectures and one two-hour laboratory per week.</td>
</tr>
<tr>
<td>Times for Credit: 1</td>
<td>1</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>Current: GEOL 305 or GEOG 131</td>
<td>Proposed: GIST 305 or GEOG 131</td>
</tr>
<tr>
<td>Co-requisites:</td>
<td></td>
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<tr>
<td>Current: GEOL 332L</td>
<td>Proposed: GIST 332L</td>
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<tr>
<td>Description for catalog:</td>
<td></td>
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<tr>
<td>Current: Basic knowledge of the fundamentals of GIS with regard to theoretical, technical, and application issues.</td>
<td>Proposed: Fundamentals of GIS and digital mapping, including basic GIS skills and an introduction to geospatial databases and analyses. Two one-hour lectures and one two-hour laboratory per week.</td>
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<tr>
<td>Requirement or listed choice for any program of study:</td>
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<tr>
<td>Change affects program sheet or grad requirements:</td>
<td>Yes ☐ No ☐</td>
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<tr>
<td>PES Minor, Geographic Information Science and Technology: M752</td>
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<tr>
<td>PES Prof Cert, Geographic Information Science and Technology: 1770</td>
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<tr>
<td>SBS Prof Cert, Cultural Resource Management: 1710</td>
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<tr>
<td>SBS Minor, Archaeology: M725</td>
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<tr>
<td>SBS Minor, International Studies: M753</td>
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</tbody>
</table>

Justification:
The prefix change will better represent the course material, as the course is not really a geology course. The course description change is just cleaning up the language and better describing the course content.

Student Learning Outcomes, current:
Upon completion of the course, students should be able to:
- Create a basic effective map in Esri ArcGIS 10
- Evaluate, acquire and create geospatial data
- Explain the use of GIS as a tool for a variety of applications and disciplines
- Apply GIS knowledge to relevant real-world situations and problems

Student Learning Outcomes, proposed:

Discussions with affected departments:
Discussed with PES Dept Head Russ Walker, 1/27/17. No Issues.

Proposed by: Gigi Richard
Expected Implementation: Fall 2017

**Course Modifications**

**GEOL 332L**

Intended semester to offer modified course for the 1st time: Fall 2017

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<td>Course No.: 332L</td>
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<tr>
<td>Credit Hours: 1</td>
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<td>Times for Credit: 1</td>
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<tr>
<td>Prerequisites: Current: GEOL 305 or GEOG 131</td>
<td>Proposed: GIST 305 or GEOG 131</td>
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<tr>
<td>Co-requisites: Current: GEOL 332</td>
<td>Proposed: GIST 332</td>
</tr>
<tr>
<td>Description for catalog: Current: Basic knowledge of the fundamentals of GIS with regard to theoretical, technical, and application issues. Proposed: Fundamentals of GIS and digital mapping, including basic GIS skills and an introduction to geospatial databases and analyses. Two one-hour lectures and one two-hour laboratory per week.</td>
<td></td>
</tr>
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<td>Requirement or listed choice for any program of study: Yes</td>
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<td>Change affects program sheet or grad requirements: Yes</td>
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PES Minor, Geographic Information Science and Technology: M752  
PES Prof Cert, Geographic Information Science and Technology: 1770  
SBS Minor, Archaeology: M725  
SBS Prof Cert, Cultural Resource Management: 1710  
SBS Minor, International Studies: M753

**Justification:**

The prefix change will better represent the course material, as the course is not really a geology course. The course description change is just cleaning up the language and better describing the course content.

**Student Learning Outcomes, current:**

- Create a basic effective map in Esri ArcGIS 10
- Evaluate, acquire and create geospatial data
- Explain the use of GIS as a tool for a variety of applications and disciplines
- Apply GIS knowledge to relevant real-world situations and problems

**Student Learning Outcomes, proposed:**

**Discussions with affected departments:**

Discussed with PES Dept Head Russ Walker, 1/27/17. No Issues.

Proposed by: Gigi Richard  
Expected Implementation: Fall 2017

Course Modifications

GEOL 375

<table>
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<td>Course Prefix: GEOL</td>
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<tr>
<td>Course No.: 375</td>
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<tr>
<td>Credit Hours: 2</td>
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<tr>
<td>Course Title: Global Positioning Systems for GIS</td>
<td></td>
</tr>
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<td>Times for Credit: 1</td>
<td>1</td>
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<tr>
<td>Prerequisites: Current: GEOL/ENVS/BIOL 332/332L</td>
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<td>Co-requisites: Current: GEOL 375L</td>
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<td>Requirement or listed choice for any program of study: Yes</td>
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<td>Change affects program sheet or grad requirements: Yes</td>
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<td>PES Minor, Geographic Information Science and Technology: M752</td>
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<tr>
<td>PES Prof Cert, Geographic Information Science and Technology: 1770</td>
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</tr>
<tr>
<td>SBS Prof Cert, Cultural Resource Management: 1710</td>
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</table>

Justification:
The change in prefix better reflects the content of the GIS courses, which are not really geology courses.

Proposed by: Gigi Richard  
Expected Implementation: Fall 2017
Course Modifications

GEOL 375L

Intended semester to offer modified course for the 1st time: Fall 2017

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<tr>
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<td>Course Title:</td>
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<td>Times for Credit:</td>
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<td>Prerequisites:</td>
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<td></td>
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<td>Current: GEOL/ENVS/BIOL 332/332L</td>
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<tr>
<td>Proposed: GIST 332/332L</td>
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<tr>
<td>Co-requisites:</td>
<td></td>
<td></td>
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<tr>
<td>Current: GEOL 375</td>
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<tr>
<td>Proposed: GIST 375</td>
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<td>Requirement or listed choice for any program of study: Yes ☑ No ☐</td>
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<tr>
<td>Change affects program sheet or grad requirements: Yes ☑ No ☐</td>
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<tr>
<td>PES Minor, Geographic Information Science and Technology: M752</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PES Prof Cert, Geographic Information Science and Technology: 1770</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBS Prof Cert, Cultural Resource Management: 1710</td>
<td></td>
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</tr>
</tbody>
</table>

Justification:
The change in prefix better reflects the content of the GIS courses, which are not really geology courses.

Proposed by: Gigi Richard

Expected Implementation: Fall 2017
Course Modifications

GEOL 432
Intended semester to offer modified course for the 1st time: Fall 2018

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>GEOL</td>
</tr>
<tr>
<td>Course No.:</td>
<td>432</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>2</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Advanced GIS</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Current: GEOL/ENVS/BIOL 332/332L</td>
</tr>
<tr>
<td>Co-requisites:</td>
<td>Current: GEOL 432L</td>
</tr>
</tbody>
</table>

Description for catalog:

Current: Emphasis on the set of analytical operations provided by this technology and the specific conditions, requirements, and processing considerations surrounding effective GIS modeling and decision making.

Proposed: Exploration of GIS techniques and analysis with emphasis on raster-based GIS technology, processing, and geospatial analysis. Two one-hour lectures and one two-hour laboratory per week.

Requirement or listed choice for any program of study: Yes ☒ No ☐
Change affects program sheet or grad requirements: Yes ☒ No ☐

PES Minor, Geographic Information Science and Technology: M752
PES Prof Cert, Geographic Information Science and Technology: 1770

Justification:
The course prefix change better reflects the content of the GIS courses, which are not really geology courses. The course title change reflects the content of the course.

Topical course outline, current:
1) Introduction and Review on GIS
2) Creating Continuing Surfaces
3) Optimal Interpolation
4) Review Statistics Handout
5) Geostatistics & Errors and Quality Control
6) Variogram and Kriging
7) Georeferencing
8) National Maps

Student Learning Outcomes, current:
1) Describe different types of rasters obtained from various sources and how they are used to represent the real world.
2) Select an appropriate interpolation model, i.e. IDW, Spline, and Kriging for analysis.
3) Using Geostatistical Analyst, apply workflows for creating prediction surfaces using different interpolation methods.
4) Analyze data using the variogram and semivariogram modeling to kriging models.
5) Accurately interpret and compare interpolation results from various models and methods.
Course Modifications

6) Perform various methods to visualize raster and feature data in 3D using ArcScene.

Student Learning Outcomes, proposed:

Discussions with affected departments:
Discussing with PES Dept Head Russ Walker, 1/27/17. No issues.

Proposed by: Gigi Richard
Expected Implementation: Fall 2017
Course Modifications

GEOL 432L

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
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<tbody>
<tr>
<td>Course Prefix:</td>
<td>GEOL</td>
</tr>
<tr>
<td>Course No.:</td>
<td>432L</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>1</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Advanced GIS Laboratory</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Current: GEOL/ENVS/BIOL 332/332L Proposed: GIST 332/332L</td>
</tr>
<tr>
<td>Co-requisites:</td>
<td>Current: GEOL 432 Proposed: GIST 432</td>
</tr>
</tbody>
</table>

Description for catalog:

Current: Emphasis on the set of analytical operations provided by this technology and the specific conditions, requirements, and processing considerations surrounding effective GIS modeling and decision making.

Proposed: Exploration of GIS techniques and analysis with emphasis on raster-based GIS technology, processing, and geospatial analysis. Two one-hour lectures and one two-hour laboratory per week.

Requirement or listed choice for any program of study: Yes ☒ No ☐

Change affects program sheet or grad requirements: Yes ☒ No ☐

PES Minor, Geographic Information Science and Technology: M752
PES Prof Cert, Geographic Information Science and Technology: 1770

Justification:
The course prefix change better reflects the content of the GIS courses, which are not really geology courses. The course content change reflects the reorganization of the required suite of GIS courses, which includes the deletion of the geodatabases course and the addition of the Intermediate GIS course. The new organization of courses is less dependent on specific software and therefore more adaptable as technology evolves.

Topical course outline, current:
1) Introduction and Review on GIS
2) Creating Continuing Surfaces
3) Optimal Interpolation
4) Review Statistics Handout
5) Geostatistics & Errors and Quality Control
6) Variogram and Kriging
7) Georeferencing
8) National Maps

Student Learning Outcomes, current:
1) Describe different types of rasters obtained from various sources and how they are used to represent the real world.
2) Select an appropriate interpolation model, i.e. IDW, Spline, and Kriging for analysis.
3) Using Geostatistical Analyst, apply workflows for creating prediction surfaces using different interpolation methods.

**Course Modifications**

4) Analyze data using the variogram and semivariogram modeling to kriging models.
5) Accurately interpret and compare interpolation results from various models and methods.
6) Perform various methods to visualize raster and feature data in 3D using ArcScene.

**Student Learning Outcomes, proposed:**

**Discussions with affected departments:**

Discussed with PES Dept Head Russ Walker, 1/27/17. No issues.

---

Proposed by:  Gigi Richard  
Expected Implementation:  Fall 2017
<table>
<thead>
<tr>
<th>Course Deletions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENVS 332</strong></td>
</tr>
<tr>
<td><strong>Course Title:</strong> Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>Essential Learning Course: Yes ☑ No ☐</td>
</tr>
<tr>
<td>Requirement or listed choice for any program of study: Yes ☑ No ☐</td>
</tr>
<tr>
<td>PES BS, Environmental Science and Technology: 3443</td>
</tr>
<tr>
<td>Prerequisite for other course(s): Yes ☑ No ☐</td>
</tr>
<tr>
<td>GEOL 432/432L, GEOL 375/375L, GEOL 321/321L</td>
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<tr>
<td>Co-requisite for other course(s): Yes ☑ No ☐</td>
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<tr>
<td>ENVS 332L</td>
</tr>
<tr>
<td><strong>Justification:</strong></td>
</tr>
<tr>
<td>This course is a cross-listing for GEOL 332. The prefix for that course is being changed to GIST, so the ENVS prefix is no longer needed.</td>
</tr>
<tr>
<td>Proposed by: Gigi Richard</td>
</tr>
</tbody>
</table>
Course Deletions

ENVS 332L

Credit Hours  1

Course Title:  Introduction to Geographic Information Systems Laboratory

Essential Learning Course:  Yes ☐ No ☑

Requirement or listed choice for any program of study:  Yes ☑ No ☐

PES  BS, Environmental Science and Technology:  3443

Prerequisite for other course(s):  Yes ☑ No ☐

GEOL 432/432L, GEOL 375/375L, GEOL 321/321L

Co-requisite for other course(s):  Yes ☑ No ☐

ENVS 332

Justification:

This course is a cross-listing for GEOL 332L. The prefix for that course is being changed to GIST, so the ENVS prefix is no longer needed.

Proposed by:  Gigi Richard  Expected Implementation:  Fall 2017

Course Deletions

GEOL 445  Credit Hours  1

Course Title:  Geodatabase Design

Essential Learning Course:  Yes  ☑  No  ☐

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐
PES Minor, Geographic Information Science and Technology:  M752
PES Prof Cert, Geographic Information Science and Technology:  1770

Prerequisite for other course(s):  Yes  ☑  No  ☐
Co-requisite for other course(s):  Yes  ☑  No  ☐

GEOL 445

Justification:
GIS software has advanced and it no longer makes sense to offer an entire course on geodatabases. The new Intermediate GIS course will cover some of this material and the new course is more generic.

Proposed by:  Gigi Richard  Expected Implementation:  Fall 2017
Course Deletions

GEOL 445L  
Credit Hours  2

Course Title:  Geodatabase Design

Essential Learning Course:  Yes  ☑  No  ☐

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐
PES  Minor, Geographic Information Science and Technology:  M752
PES  Prof Cert, Geographic Information Science and Technology:  1770

Prerequisite for other course(s):  Yes  ☑  No  ☐

Co-requisite for other course(s):  Yes  ☑  No  ☐

GEOL 445L

Justification:
GIS software has advanced and it no longer makes sense to offer an entire course on geodatabases. The new Intermediate GIS course will cover some of this material and the new course is more generic.

Proposed by:  Gigi Richard  
Expected Implementation:  Fall 2017
Program Modification

Environmental Science and Technology:  3443

Degree Type:  BS

Revision to program sheet:  Yes ☑  No ☐

Description of modification:
Prefix for ENVS 332 and 332L were changed to GIST 332 and 332L to reflect change in the course prefix and removing cross-listing.

Justification:
Program prefixes have been changed to GIST to better reflect course and program content. Cross-listing within other programs was not deemed to be useful and may be confusing to students.

Revision to SLOs:  Yes ☐  No ☑

Other changes:  Yes ☐  No ☑

Discussions with affected departments:
Environmental Science (PES) - 1/27/17 - cross-listing is not useful

Proposed by:  G. Richard

Director of Teacher Education Signature:

Expected Implementation:  Fall 2017
Program Modification

Geosciences-Environmental Geology: 3473

Degree Type: BS

Revision to program sheet: Yes ☑ No ☐

Description of modification:

The following courses were added to restricted electives:
GIST 332 Introduction to GIS
GIST 332L Introduction to GIS Lab
GEOL 351 Applied Geochemistry
GEOL 443 Field-Based Depositional Systems
GEOL 443L Field-Based Depositional Systems Lab

Justification:

GIST 332 and 332L have been added to the list of restricted electives, as this course combination is a popular and useful choice for Geology. Material in the basic GIS course reinforces applied methods in the program.

GEOL 351 has been a listed course in the program for many years, but Spring 2017 is the first semester in which it has been taught.

GEOL 443 and 443L have been taught as Topics for the past few years, and the course combination has been moved to the list of regular courses.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:

NA

Proposed by: G. Richard

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Geosciences-Geology: 3472

Degree Type: BS

Revision to program sheet: Yes ☑ No ☐

Description of modification:

The following courses were added to restricted electives:
- GIST 332 Introduction to GIS
- GIST 332L Introduction to GIS Lab
- GEOL 351 Applied Geochemistry
- GEOL 443 Field-Based Depositional Systems
- GEOL 443L Field-Based Depositional Systems Lab

Justification:

GIST 332 and 332L have been added to the list of restricted electives, as this course combination is a popular and useful choice for Geology. Material in the basic GIS course reinforces applied methods in the program.

GEOL 351 has been a listed course in the program for many years, but Spring 2017 is the first semester in which it has been taught.

GEOL 443 and 443L have been taught as Topics for the past few years, and the course combination has been moved to the list of regular courses.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:

NA

Proposed by: G. Richard

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Geographic Information Science and Technology: M752

Degree Type: Minor

Revision to program sheet: Yes ☒ No ☐

Description of modification:
The program modification involves the following:
- change in course prefixes from GEOL to GIST
- replace GEOL 445/445L Geodatabases with GIST 422/422L Intermediate GIS to better reflect current and possible future software and technology
- create new restricted electives category to give students options to add programming, surveying and/or focuses GIS projects into their GIS program.
- deletion of cross listing for the Intro to GIS course.

Justification:
GIS software and technology are constantly evolving. The new Intermediate course and revised course sequencing is less software specific which will make the courses and program more adaptable in the future.

The prefix change is appropriate because the courses are not geology courses. The new prefix, GIST, better reflects the course content and may make the courses and program more attractive to students from other non-science disciplines.

The new restricted electives allow students to focus their geospatial science and technology studies in other areas, which may make the program more attractive to students from CSCI, CIVE and SBS.

The cross-listing is being deleted because it is no longer needed.

Revision to SLOs: Yes ☐ No ☒

Other changes: Yes ☐ No ☒

Discussions with affected departments:
The following departments have been contacted and have no issues with the proposal:
PES, BIOL, CSCI and CIVE (1/27/17)

Proposed by: Gigi Richard

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Geographic Information Science and Technology: 1770

Degree Type: Prof Cert

Revision to program sheet: Yes ☑ No ☐

Description of modification:

The program modification involves the following:
- change in course prefixes from GEOL to GIST
- replace GEOL 445/445L Geodatabases with GIST 422/422L Intermediate GIS to better reflect current and possible future software and technology
- create new restricted electives category to give students options to add programming, surveying and/or focuses GIS projects into their GIS program
- deletion of cross listing for the Intro to GIS course.

Justification:

GIS software and technology are constantly evolving. The new Intermediate course and revised course sequencing is less software specific which will make the courses and program more adaptable in the future.

The prefix change is appropriate because the courses are not geology courses. The new prefix, GIST, better reflects the course content and may make the courses and program more attractive to students from other non-science disciplines.

The new restricted electives allow students to focus their geospatial science and technology studies in other areas, which may make the program more attractive to students from CSCI, CIVE and SBS.

The cross-listing is being deleted because it is no longer needed.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:

The following departments have been contacted and have no issues with the proposal:
PES, BIOL, CSCI and CIVE (1/27/17)

Proposed by: Gigi Richard

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Course Modifications

ARKE 325

Intended semester to offer modified course for the 1st time:

<table>
<thead>
<tr>
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<th>Proposed</th>
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<tbody>
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<td>Course Prefix:</td>
<td>ARKE</td>
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<tr>
<td>Course No.:</td>
<td>325</td>
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<tr>
<td>Credit Hours:</td>
<td>3</td>
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<tr>
<td>Course Title:</td>
<td>Geoarchaeology</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
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<tr>
<td>Prerequisites:</td>
<td></td>
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<tr>
<td>Current: ARKE 205</td>
<td>Proposed: ARKE 205 &amp; GEOL 111/111L</td>
</tr>
</tbody>
</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Justification:

Geoarchaeology is the study of how geological processes affect the deposition, preservation and resolution of archaeological materials. Because this is the application of one content area to another, students should have at least an introductory-level understanding of both domains (archaeology and geology) prior to taking this class. GEOL 111/L was already listed on the program sheet but was not included in the course catalog. This course modification will provide for correction in the catalog.

Discussions with affected departments:

Discussed with Dr. Walker of Physical and Environmental Sciences Department on Feb. 13th

Proposed by: John Seebach

Expected Implementation: Fall 2017
Program Modification

Archaeology: M725

Degree Type: Minor

Revision to program sheet: Yes ☑ No ☐

Description of modification:
The proposed modification is making more explicit the differences between the CRM program and the traditional archaeology minor. Additionally, HIST 355 and 405 are being removed as potential electives. The number of Elective Course credit hours has also been reduced to six from nine. This brings the total number of required hours more in line with other minors offered at CMU. The hours for ARKE 410L are being changed on the program sheet to reflect what is in the current catalog. Several course titles on the program sheet are changed to more accurately reflect the course title in the current catalog. GEOL 332/L is being changed to GIST 332/L on the program sheet to accommodate a course modification to change the course prefix for that course and delete cross listed courses.

Justification:
A review of the Professional Certificate in CRM and Archaeology Minor Program Sheets revealed some confusing overlap between the two forms. These changes make it more explicit that the Certificate program is an "add-on" to the traditional minor.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
NA

Proposed by: John Seebach

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Cultural Resource Management: 1710

Degree Type:  Prof Cert

Revision to program sheet:  Yes  ☑  No  ☐

Description of modification:
The proposed modification is making more explicit the differences between the CRM program and the traditional archaeology minor. Two courses are being added to the Certificate: GIST 332 and 332L and GEOG 131. These requirements will prepare students for the archaeological survey and spatial analyses that are found in virtually all CRM jobs. GEOL 375 and 375L are being changed on the program sheet to GIST 375 and 375L due to a course modification for that course. Course cross listings on the program sheet are also being deleted.

Justification:
A review of the Professional Certificate in CRM and Archaeology Minor Program Sheets revealed some confusing overlap between the two forms. The changes make more explicit that the Certificate program is an "add-on" to the traditional minor.

Revision to SLOs:  Yes  ☑  No  ☐

Other changes:  Yes  ☑  No  ☐

Discussions with affected departments:
NA

Proposed by:  John Seebach

Director of Teacher Education Signature:

Expected Implementation:  Fall 2017
Program Modification

International Studies:  M753
Degree Type:  Minor

Revision to program sheet:  Yes ☑  No ☐

Description of modification:
The program modification involves the following:
- change in course prefix from GEOL to GIST for Intro to GIS.

Justification:
Program prefixes have been changed to GIST to better reflect course and program content.

Revision to SLOs:  Yes ☐  No ☑

Other changes:  Yes ☐  No ☑

Discussions with affected departments:
Discussed w/ SBS faculty, Tim Casey and Eliot Jennings on 2/2/17

Proposed by:  Gigi Richard

Director of Teacher Education Signature:  

Expected Implementation:  Fall 2017
Department: SBS-Political Science

Course Modifications

POLS 201

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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<td>Course Prefix:</td>
<td>POLS</td>
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<tr>
<td>Course No.:</td>
<td>201</td>
</tr>
<tr>
<td>Credit Hours:</td>
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<tr>
<td>Course Title:</td>
<td>Introduction to Politics</td>
</tr>
<tr>
<td>Abbreviated Title:</td>
<td>Introduction to Politics</td>
</tr>
<tr>
<td>Times for Credit:</td>
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</tr>
<tr>
<td>Prerequisites:</td>
<td>Current: POLS 101</td>
</tr>
<tr>
<td></td>
<td>Proposed: None</td>
</tr>
</tbody>
</table>

Description for catalog:

Current: Introduction to major questions and tools of investigation in the study of politics. Examination of classical political theorists and modern scientific methods. Additional emphasis on tracing the evolution of the discipline.

Prerequisite: POLS 101, must be taken within first 60 credit hours.

Proposed: Introduction to major tools of investigation in the study of politics. Examination of modern scientific research design and methods. Additional emphasis on discipline-specific skills in critical thinking, information literacy, writing and citation mechanics, and oral communication.

Requirement or listed choice for any program of study: Yes ☑️ No ☐

Change affects program sheet or grad requirements: Yes ☐ No ☑️

Justification:

This course was introduced at a time when the Political Science program lacked introductory-level classes in the four main sub-fields of the discipline. Its original purpose was two-fold: 1) to provide students an accessible overview of the four sub-fields of political science, and 2) to familiarize them with core styles and methods of inquiry in the discipline as a whole. However, the first purpose is null because our program now has introductory-level classes in all four sub-fields of the discipline. Furthermore, since POLS 201 was introduced, all three faculty members who’ve taught it have struggled with aligning it with our other classes and program requirements, as well as striking an appropriate balance between its two functions. We have discussed this issue annually, and all four faculty members have agreed to narrow the focus of POLS 201 to its second function--i.e., teaching core styles and methods of inquiry in political science. We feel that our students will be better served with a tighter focus on building key discipline-specific skills involving critical thinking, information literacy, writing and citation mechanics, research design, research methodology, and communicating research findings. We have noted that many of our senior-level students remain deficient in these areas. Our consensus is that students no longer need POLS 101, Introduction to American Government, as a pre-requisite, given that the modified course does not presuppose prior content knowledge in any of the sub-fields of the discipline. We also feel that our students would benefit from additional guidance in choosing a career in the field. This course modification could go a long ways towards addressing the problem. It also aligns CMU’s Political Science program better with the structure of our sociology, criminal justice, and psychology programs, all of which include a similar course.

Topical course outline, current:

Abbreviated Title: | Intro. to Pol. Inquiry |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description for catalog:</td>
<td></td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
</tbody>
</table>

Course Modifications

What is "Scientific" about Political Science?
Forming Research Questions
Finding and Assessing Academic Literature
Political Decision-making
Power: Whom We Obey and Why
Writing the Literature Review
Political Institutions: The Structure and Mechanics of Power
Models and Hypotheses in Political Science Research
Research Design
Quantitative Research Methodos
Qualitative Research Methods
Communicating Research Findings

Topical course outline, proposed:

What is "Scientific" about Political Science?
Interpretive vs. Positivist Notions of Science
Forming Research Questions
Finding Academic Literature
Citation Mechanics
Critical Reading of Academic Literature
Writing a Literature Review
Models and Hypotheses in Political Science Research
Research Design
Quantitative Research Methods
Qualitative Research Methods
Communicating Research Findings--Writing Mechanics
Communicating Research Findings--The Oral Presentation
Choosing a Career in Political Science

Student Learning Outcomes, current:

1) Critically analyze the theories and concepts relevant to political science (specialized knowledge).
2) Defend a political argument using established methods (empirical and/or normative) in the field of political science (intellectual skills and communication fluency).
3) Articulate diverse perspectives surrounding a political issue (critical thinking).

Student Learning Outcomes, proposed:

Discussions with affected departments:

Sporadic, informal consultations between Dr. William Flanik, Dr. Tim Casey, and Dr. Justin Gollo in Fall 2014 to Fall 2016. Final, formal consultation with Dr. Tim Casey, Dr. Justin Gollo, and Dr. Eliot Jennings (the entire Political Science program faculty) on 4 January 2017. All four meeting participants concurred with this proposed course modification.

Proposed by: William Flanik

Expected Implementation: Fall 2017
Program Modification

Political Science: 3718

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Changing the course title and prerequisites for POLS 201.

Justification:
Program modification is being made to accommodate course modification for POLS 201.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
Final consultation occurred on Jan. 4, 2017 with all political science program faculty.

Proposed by: Eliot Jennings

Expected Implementation: Fall 2017
Program Modification

Political Science: M730

Degree Type: Minor

Revision to program sheet: Yes ☑ No ☐

Description of modification:

Changing the course title and prerequisites for POLS 201.

Justification:

Program modification is being made to accommodate course modification for POLS 201.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:

Final consultation occurred on Jan. 4, 2017 with all political science program faculty.

Proposed by: Eliot Jennings

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Liberal Arts-Elementary Education, Social Science: 3251

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Currently, the Elementary Education/Liberal Arts Program with an emphasis in the social sciences limits the course offerings to a limited number of upper-division history courses focused predominantly on early American history. We would like to expand the list of acceptable upper-division history courses.

Justification:
Elementary Education/Liberal Arts students with an emphasis in the social sciences are finding that they are encountering more questions on the PRAXIS that deal with aspects beyond the study of American history, especially questions regarding world history. By students having more autonomy in courses they can select from, they will also receive a firmer grounding in historical topics outside of a singular focus on early American history.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Discussions with affected departments:
Social and Behavioral Sciences - 1/26/17 - Discussion to modify program, approval from Doug O'Roark
Center for Teacher Education - 1/27/17 - Discussion to modify program, approval from Blake Bickham and Lisa Friel

Proposed by: Erika Jackson

Director of Teacher Education Signature: Blake R. Bickham

Expected Implementation: Fall 2017
Department: Teacher Education

Course Deletions

EDUC 485     Credit Hours  3
Course Title: Modes of Inquiry
Essential Learning Course: Yes ☑ No ☐
Requirement or listed choice for any program of study: Yes ☑ No ☐
Teacher Ed MA, Education-Initial Teacher Licensure/Endorsement-Elementary: 8213
Teacher Ed Grad Cert, Education-Initial Teacher Licensure/Endorsement -Elementary: 7205
Prerequisite for other course(s): Yes ☑ No ☐
  EDUC 591
  EDUC 586A
Co-requisite for other course(s): Yes ☑ No ☐
  EDUC 487
  EDUC 488
  EDUC 492A

Justification:

These course are Graduate level courses and are being changed to 500-level courses in order to align with CMU’s graduate policies and procedures manual. Therefor, we are asking them to be removed from the Undergraduate Curriculum level.

Proposed by: Jennifer C LaBombard-Daniels  Expected Implementation: Fall 2017
Course Deletions

EDUC 487  
Credit Hours  3

Course Title:  Literacy Education K-6

Essential Learning Course:  Yes  ☑  No  ☐

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐

Teacher Ed  MA,  Education-Initial Teacher Licensure/Endorsement-Elementary:  8213
Teacher Ed  Grad Cert,  Education-Initial Teacher Licensure/Endorsement -Elementary:  7205

Prerequisite for other course(s):  Yes  ☑  No  ☑

   EDUC 586A
   EDUC 591

Co-requisite for other course(s):  Yes  ☐  No  ☐

   EDUC 485
   EDUC 488
   EDUC 492A

Justification:
These course are Graduate level courses and are being changed to 500-level courses in order to align with CMU's graduate policies and procedures manual. Therefore, we are asking them to be removed from the Undergraduate Curriculum level.

Proposed by:  Jennifer C LaBombard-Daniels  
Expected Implementation:  Fall 2017
Course Deletions

EDUC 488  
Credit Hours  3

Course Title: Math Education K-6

Essential Learning Course: Yes ☐ No ☑

Requirement or listed choice for any program of study: Yes ☑ No ☐

Teacher Ed MA, Education-Initial Teacher Licensure/Endorsement-Elementary: 8213
Teacher Ed Grad Cert, Education-Initial Teacher Licensure/Endorsement -Elementary: 7205

Prerequisite for other course(s): Yes ☑ No ☐

   EDUC 586A
   EDUC 591

Co-requisite for other course(s): Yes ☑ No ☐

   EDUC 485
   EDUC 487
   EDUC 492A

Justification:

These course are Graduate level courses and are being changed to 500-level courses in order to align with CMU's graduate policies and procedures manual. Therefor, we are asking them to be removed from the Undergraduate Curriculum level.

Proposed by: Jennifer C LaBombard-Daniels  
Expected Implementation: Fall 2017
Course Deletions

EDUC 492A
Credit Hours 4

Course Title: ITL 2: Directed Teaching: Elementary Education

Essential Learning Course: Yes ☑️ No ☐️

Requirement or listed choice for any program of study: Yes ☑️ No ☐️

Teacher Ed MA, Education-Initial Teacher Licensure/Endorsement-Elementary: 8213
Teacher Ed Grad Cert, Education-Initial Teacher Licensure/Endorsement -Elementary: 7205

Prerequisite for other course(s): Yes ☑️ No ☐️
EDUC 586A
EDUC 591

Co-requisite for other course(s): Yes ☑️ No ☐️
EDUC 485
EDUC 487
EDUC 488

Justification:
These course are Graduate level courses and are being changed to 500-level courses in order to align with CMU's graduate policies and procedures manual. Therefor, we are asking them to be removed from the Undergraduate Curriculum level.

Proposed by: Jennifer C LaBombard-Daniels
Expected Implementation: Fall 2017
Course Deletions

EDUC 492B

Credit Hours  4

Course Title: ITL 2: Directed Teaching: Secondary Education

Essential Learning Course: Yes ☐ No ☑

Requirement or listed choice for any program of study: Yes ☐ No ☑

Teacher Ed MA, Education-Initial Teacher Licensure/Endorsement-Secondary: 8215
Teacher Ed Grad Cert, Education-Initial Teacher Licensure/Endorsement -Secondary: 7206-7210

Prerequisite for other course(s): Yes ☑ No ☐

EDUC 591
EDUC 586B

Co-requisite for other course(s): Yes ☐ No ☑

EDUC 442
EDUC 497
EDUC 487 A, B, C, D, or E

Justification:

These course are Graduate level courses and are being changed to 500-level courses in order to align with CMU's graduate policies and procedures manual. Therefore, we are asking them to be removed from the Undergraduate Curriculum level.

Proposed by: Jennifer C LaBombard-Daniels  Expected Implementation: Fall 2017
Program Modification

Early Childhood Education-Special Education

Degree Type:  BA
Modified Program Name:  Early Childhood Education, Early Childhood Special Education Concentration

Modified Program Name:  Early Childhood Special Ed
Revision to program sheet:  Yes  ☑  No  ☐
Description of modification:
We are proposing to create a name change from Early Childhood Education-Special Education to Early Childhood Education, Early Childhood Special Education Concentration

Justification:
The name change is reflecting a more accurate description of the program. The "new" name is based on how candidates will be licensed through the State. They are receiving a teaching license for "Early childhood: Birth-Age 8" and getting an endorsement in "Early Childhood Special Education (Birth-Age 8)." These licenses are what the State has approved. We fear that leaving the concentration as simply "special education" would imply that they could be licensed for k-12, which is not the case.

Revision to SLOs:  Yes  ☐  No  ☑
Other changes:  Yes  ☐  No  ☑

Discussions with affected departments:
NA

Proposed by:  Jennifer C LaBombard-Daniels
Director of Teacher Education Signature:  Blake Bickham

Expected Implementation:  Fall 2017
Course Modifications

DANC 180

Intended semester to offer modified course for the 1st time: Fall 2017

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</tr>
</thead>
<tbody>
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<td>Course No.:</td>
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<tr>
<td>Course Title:</td>
<td>Beginning Hip Hop Dance</td>
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<td>Times for Credit:</td>
<td>1</td>
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</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

Theatre BFA, Dance: 3267
Theatre Minor, Dance: M220

Justification:
This change reflects the fact that some students may need more grounding in the first level of techniques covered in Level 1 classes before they are ready to move on to the more advanced levels.

Proposed by: Jill Van Brussel
Expected Implementation: Fall 2017
Course Modifications

DANC 181

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
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</thead>
<tbody>
<tr>
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<tr>
<td>Course No.:</td>
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<tr>
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<td>Course Title:</td>
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<td>Requirement or listed choice for any program of study:</td>
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</tr>
<tr>
<td>Change affects program sheet or grad requirements:</td>
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Justification:

This change reflects the fact that some students may need more grounding in the first level of techniques covered in Level 1 classes before they are ready to move on to the more advanced levels.

Proposed by: Jill Van Brussel

Expected Implementation: Fall 2017
Course Modifications

DANC 182

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
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<th>Proposed</th>
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</thead>
<tbody>
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<tr>
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<td>Times for Credit:</td>
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<td>Required or listed choice for any program of study:</td>
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<td>Change affects program sheet or grad requirements:</td>
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Theatre BFA, Dance: 3267
Theatre Minor, Dance: M220

Justification:
This change reflects the fact that some students may need more grounding in the first level of techniques covered in Level 1 classes before they are ready to move on to the more advanced levels.

Proposed by: Jill Van Brussel

Expected Implementation: Fall 2017
Course Modifications

DANC 183

<table>
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<tbody>
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<td>Requirement or listed choice for any program of study:</td>
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<td>Change affects program sheet or grad requirements:</td>
<td>Yes</td>
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</table>

Theatre  BFA,  Dance:  3267
Theatre  Minor,  Dance:  M220

Justification:
This change reflects the fact that some students may need more grounding in the first level of techniques covered in Level 1 classes before they are ready to move on to the more advanced levels.

Proposed by:  Jill Van Brussel
Expected Implementation:  Fall 2017
**Course Modifications**

DANC 184

Intended semester to offer modified course for the 1st time: Fall 2017

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<th>Proposed</th>
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</thead>
<tbody>
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<td>DANC</td>
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<tr>
<td>Course No.:</td>
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<tr>
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<td>Times for Credit:</td>
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</table>

Requirement or listed choice for any program of study: Yes [X] No [ ]

Change affects program sheet or grad requirements: Yes [X] No [ ]

**Theatre BFA, Dance:** 3267

**Theatre Minor, Dance:** M220

**Justification:**

This change reflects the fact that some students may need more grounding in the first level of techniques covered in Level 1 classes before they are ready to move on to the more advanced levels.

Proposed by: Jill Van Brussel

Expected Implementation: Fall 2017

Program Modification

Theatre Arts-Design/Technology: 3262

Degree Type: BA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Cleanup of program sheet to update performance options to correct course number.

Justification:
Cleanup of course number mistake on program sheet.

Revision to SLOs: Yes ☑ No ☐

Other changes: Yes ☑ No ☑

Proposed by: Jill Van Brussel

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Dance: 3267

Degree Type: BFA

Revision to program sheet: Yes ☐ No ☑

Description of modification:
Level I Dance Techniques courses (DANC 180, DANC 181, DANC 182, DANC 183, DANC 184) are being modified to reflect that they may be taken up to 2 times for credit. This adjustment reflects a policy already stated on the Program Sheet.

Justification:
Students may need to take Level I dance techniques courses more than once to be ready to move on to more advanced levels. This modification is designed to make official in DegreeWorks what is already present as a policy on the Program Sheet.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Proposed by:
Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Theatre Arts-Acting/Directing: 3260

Degree Type: BFA

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Program sheet changed to reflect both upper and lower division options for Performance credit requirements.

Justification:
Currently, program sheets only reflect 100 and 200 level performance options. As students enroll for them according to their class level (100 through 400 level options), course substitutions become necessary. This will allow Degreeworks to recognize all levels of performance options as meeting the requirements.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☑ No ☐

Proposed by: Jill Van Brussel

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Theatre Arts-Music Theatre: 3263

Degree Type: BFA

Revision to program sheet: Yes ☑ No □

Description of modification:
Program sheet changed to reflect both upper and lower division options for Performance credit requirements.

Justification:
Currently, program sheets only reflect 100 and 200 level performance options. As students enroll for them according to their class level (100 through 400 level options), course substitutions become necessary. This will allow Degreeworks to recognize all levels of performance options as meeting the requirements.

Revision to SLOs: Yes □ No ☑

Other changes: Yes □ No ☑

Proposed by: Jill Van Brussel

Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Modification

Dance: M220

Degree Type: Minor

Revision to program sheet: Yes ☐ No ☑

Description of modification:
Level I Dance Techniques courses (DANC 180, DANC 181, DANC 182, DANC 183, DANC 184) are being modified to reflect that they may be taken up to 2 times for credit. This adjustment reflects a policy already stated on the Program Sheet.

Justification:
Students may need to take Level I dance techniques courses more than once to be ready to move on to more advanced levels. This modification is designed to make official in DegreeWorks what is already present as a policy on the Program Sheet.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

Proposed by:
Director of Teacher Education

Signature:

Expected Implementation: Fall 2017
Department: WCCC-Info/Communication Technology

Program Additions

Information and Communication Technology

Degree Type: AAS
Abbreviated Name: Info and Comm Tech

Proposed by: Steve McGraw
Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Additions

Information and Communication Technology: Healthcare Information

Degree Type: Technical Cert
Abbreviated Name: Healthcare Information

Proposed by: Steve McGraw
Director of Teacher Education Signature:
Expected Implementation: Fall 2017
Program Additions

Information and Communication Technology: Network Technician

Degree Type: Technical Cert
Abbreviated Name: Network Tech

Proposed by: Steve McGraw
Director of Teacher Education Signature:

Expected Implementation: Fall 2017
Program Additions

Information and Communication Technology: Help Desk Technician

Degree Type: Technical Cert
Abbreviated Name: Help Desk Tech

Proposed by: Steve McGraw
Director of Teacher Education Signature:
Expected Implementation: Fall 2017
Course Additions

TECI 111

Course Title: Healthcare Data Management and Information Systems

Abbreviated Title: Healthcare Data Systems

Contact hours per week: Lecture Lab Field Studio Other 4.5

Type of Instructional Activity: Lecture/Laboratory: Vocational/Technical

Academic engagement minutes: 3375 Student preparation minutes: 3375

Intended semesters for offering this course: Fall ☑ J-Term ☐ Spring ☑ Summer ☐

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes ☐ No ☑

Prerequisites: Yes ☑ No ☐

Prerequisite for other course(s): Yes ☑ No ☐

Co-requisites: Yes ☑ No ☐

N/A

Requirement or listed choice for any program of study: Yes ☑ No ☐

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Healthcare Information Networking

Overlapping content with present courses offered on campus: Yes ☑ No ☐

Additional faculty FTE required: Yes ☑ No ☐

Additional equipment required: Yes ☑ No ☐

Additional lab facilities required: Yes ☑ No ☐

Course description for catalog:

Introduction to the electronic health record (EHR) components and health informatics including infrastructure, privacy, security, and legal implications. Federal involvement and its impact on information technology regarding health data will be discussed. The transformation of data into meaningful information, through research, vital statistics, and epidemiology will be demonstrated. Data quality, integrity, collection, access, and retention will also be emphasized.

Justification:

Healthcare is increasingly technology-driven and all of these devices ultimately connect to a computer network. There is a significant amount of healthcare activity in the Grand Valley area, and a demand for technicians knowledgeable about the special concerns of healthcare information networks. Local employers support this class and its associated Certificate.

Topical course outline:

Introduction to Health Information Technology, Health Informatics and Terminology
Health Information System Infrastructure and Health Information System Components
Health Information Technology Standards, Classifications and Terminologies
Health Record Content, Flow and Processing and Documentation Guidelines
Legal Health Records, Personal Health Records, and Consumer Health Informatics
Privacy and Security in Health Information
Federal involvement in HIT and Meaningful Use
Data and Information, Data Collection, Data Quality, and Data Access and Retention, including

Course Additions

Institutional Review Board (IRB) processes and policies and National guidelines regarding human subject research and research protocol monitoring.

Databases, Data Warehouses, and Data Dictionaries
SQL and Data Analysis and Presentation
Health Data Uses, Registries and Data Sets

Student Learning Outcomes:

Demonstrate how the field of Health Care Informatics/EHRs impact Health Information Management and its functions.

Explain the meaning of common health information technology terminology.

Explain the role of the federal government in the adoption and use of electronic health records.

Describe the components of an electronic health record, internet technologies (software utilization), archival and retrieval systems for patient information, and health information system infrastructure.

Differentiate the different types of health records, their content and their documentation guidelines.

Identify the purposes and methods related to record analysis, including quantitative, qualitative and legal.

Describe the functions and evolving role of the Health Information Management (HIM) departments/professionals in transforming data into meaningful information.

Demonstrate how data is collected and protected in a health information system.

Describe the structure and use of healthcare data, the concepts of data integrity and governance, and the importance of addressing needs of multi-users.

Identify the major data sets, standards, classifications and terminologies, and their scope/uses.

Perform the collection of health care data for use with data analytics, in decision making (decision support), reporting (report generation technologies) and presentation (basic descriptive, institutional & healthcare statistics).

Discussions with affected departments:

N/A

Proposed by: Steve McGraw
Expected Implementation: Fall 2017
Course Additions

TECI 131

Course Title: Principles of Information Assurance
Abbreviated Title: Principles of IA

Contact hours per week: Lecture Lab Field Studio Other 4.5

Type of Instructional Activity: Lecture/Laboratory: Vocational/Technical

Academic engagement minutes: 3375
Student preparation minutes: 3375

Intended semesters for offering this course: Fall J-Term Spring Summer

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes No ✓

Prerequisites: Yes No ✓
Prerequisite for other course(s): Yes No ✓
Co-requisites: Yes No ✓

Requirement or listed choice for any program of study: Yes No ✓

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Network Technician Certificate
Information and Communication Technology: Healthcare Information Networking Certificate
Information and Communication Technology: Help Desk Technician Certificate

Overlapping content with present courses offered on campus: Yes No ✓

Additional faculty FTE required: Yes No ✓
Additional equipment required: Yes No ✓
Additional lab facilities required: Yes No ✓

Course description for catalog:

Exploration of skills and knowledge required to survey key issues associated with protecting information assets, determine the levels of protection and response to security incidents, and design a consistent, reasonable information security system. Students learn to inspect and protect information assets, detect and react to threats to information assets, and examine pre- and post-incident procedures.

Justification:

The current Security Fundamentals course is too specific regarding Cisco and other proprietary devices used in large enterprise environments. The course covers skills more relevant to entry-level employees, and covers 95% of data compromises.

Topical course outline:

Introduction to Information Security
The Need for Security
Legal, Ethical, and Professional Issues in Information Security
Risk Management
Planning for Security
Security Technology: Firewalls, VPNs, and Wireless
Security Technology: Intrusion Detection and Prevention Systems and Other Security Tools
Cryptography
Physical Security
Implementing Information Security
Course Additions

Security and Personnel
Information Security Maintenance

Student Learning Outcomes:

Define key terms and explain critical concepts.
Explain the managerial and technical aspects of information security for information systems.
Identify the legal, ethical, and professional issues in information security.
Identify, assess, and reduce risk to an acceptable level and implement effective control measures to maintain that level of risk.
Describe authentication and access control methods.
Describe accepted security models and frameworks and examine the planning processes that support business continuity, disaster recovery, and incident response.
Demonstrate use of intrusion detection, prevention systems, and other security tools.
List architectures and implementations of cryptosystems.
Describe the elements that are critical to implementing a security plan.
Develop security policies for personnel.
Demonstrate ability to maintain information security policies and procedures.

Proposed by: Christine Murphy

Expected Implementation: Fall 2017
Course Additions

TECI 142  Credit Hours  3

Course Title: Internet of Things

Abbreviated Title: Internet of Things

Contact hours per week: Lecture  Lab  Field  Studio  Other  4.5

Type of Instructional Activity: Lecture/Laboratory: Vocational/Technical

Academic engagement minutes: 3375  Student preparation minutes: 3375

Intended semesters for offering this course: Fall  ☑  J-Term  ☐  Spring  ☑  Summer  ☐

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes  ☑  No  ☐

Prerequisites: Yes  ☑  No  ☐

Prerequisite for other course(s): Yes  ☑  No  ☐

Co-requisites: Yes  ☑  No  ☐

Requirement or listed choice for any program of study: Yes  ☑  No  ☐

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science Degree
Information and Communication Technology: Healthcare Information Networking Certificate

Overlapping content with present courses offered on campus: Yes  ☑  No  ☐

Additional faculty FTE required: Yes  ☑  No  ☐

Additional equipment required: Yes  ☑  No  ☐

Additional lab facilities required: Yes  ☑  No  ☐

Course description for catalog:

Introduction to the network and how the internet expands to sectors such as manufacturing floors, energy grids, healthcare facilities, and transportation. Students will learn the network of physical objects that contain embedded technology to communicate and interact with their internal states. Topics will also include cloud applications and cloud-based office productivity software.

Justification:

We have no course to cover the Internet of Things. The Internet of Things is inter-related to Cloud Computing. The Internet of Things market is expected to climb from 157.05 billion in 2016 to 661.74 billion by 2021. Entry-level technicians are already working with these devices.

Topical course outline:

Old Models of Computing
Limitations of Mainframes
Client/Server Networks
The Cloud Model
The Benefits of Cloud Computing
Understanding Virtualization
Providers & Applications
Productivity in the Cloud
Cloud-Based Tools
PC Based Tools
Limitations
Hosting and Development
Course Additions

- Operational Design & Requirements
- Application Development
- Vendor Products
- Access Control
- Access Management & Control
- Automating Access Decisions
- Security & Privacy Issues
- Data Separation & External Threats
- Disaster Recovery
- Business Case and Return on Investment (ROI)
- Building a Business Case for Cloud Computing

Student Learning Outcomes:

- Describe the technical differences between mainframes, client/server, and cloud architecture and their relative advantages and disadvantages.
- Evaluate the benefits of cloud computing, virtualization, and enhanced productivity by using cloud-based tools.
- Create simple cloud network architectures in an effort to understand application and operational design requirements.
- Describe access control and security issues as they differ from present client/server networks.
- Demonstrate technical knowledge to simulated deployment and business planning issues using a case study in a team-based project to show return on investment (ROI) potential.
- Describe Cloud-based applications and productivity software.

Discussions with affected departments:

N/A

Proposed by: Steve McGraw  Expected Implementation: Fall 2017
## TECI 165

**Course Title:** Convergent Technologies  
**Abbreviated Title:** Convergent Tech  
**Contact hours per week:** Lecture | Lab | Field | Studio | Other | 4.5  
**Type of Instructional Activity:** Lecture/Laboratory: Vocational/Technical  
**Academic engagement minutes:** 3375  
**Student preparation minutes:** 3375  
**Intended semesters for offering this course:** Fall | J-Term | Spring | Summer  
**Intended semester to offer course 1st time:** Fall 2017  
**Number of times course may be taken for credit:** 1  
**Essential Learning Course:** Yes  
**Prerequisites:** Yes  
**Prerequisite for other course(s):** Yes  
**Co-requisites:** Yes  
**Requirement or listed choice for any program of study:** Yes  
**Course is a requirement for a new program:** Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Network Technician Certificate
Information and Communication Technology: Healthcare Information Networking Certificate
Information and Communication Technology: Help Desk Technician Certificate  
**Overlapping content with present courses offered on campus:** Yes  
**Additional faculty FTE required:** Yes  
**Additional equipment required:** Yes  
**Additional lab facilities required:** Yes  

### Course description for catalog:
Introduction to telecommunications, including how data, voice, and video technologies are converging for telecommunications systems. Topics will also include wireless, ISDN, PCM, DSL, cable, IP voice, and computer networks.

### Justification:
This course replaces TECI 240 VoIP Fundamentals. VoIP is now considered to be a subset of Convergent Technologies which include video, audio/voice, security and data.

### Topical course outline:
- Guided Technologies
- Unguided/Broadcast Technologies
- Internet and Networks
- Industry

### Student Learning Outcomes:
- Identify the relationship among the various telecommunications systems that use a guided media for transmission.
- Identify the relationship between the various telecommunications systems that use broadcast media for transmission.
- Demonstrate how the multiple telecommunication activities are brought together.
- Demonstrate the ways telecommunication is being offered to the consumer.
Course Additions

Discussions with affected departments: N/A

Proposed by: Christine Murphy

Expected Implementation: Fall 2017
**Course Additions**

**TECI 242**

**Course Title:** Cloud Computing  
**Abbreviated Title:** Cloud Computing

<table>
<thead>
<tr>
<th>Site</th>
<th>Lecture</th>
<th>Lab</th>
<th>Field</th>
<th>Studio</th>
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**Type of Instructional Activity:** Lecture/Laboratory: Vocational/Technical

**Academic engagement minutes:** 3375  
**Student preparation minutes:** 3375

**Intended semesters for offering this course:** Fall ☑ J-Term ☐ Spring ☑ Summer ☐

**Intended semester to offer course 1st time:** Fall 2017

**Number of times course may be taken for credit:** 1

**Essential Learning Course:** Yes ☑ No ☐

**Prerequisites:** Yes ☑ No ☐

**Prerequisite for other course(s):** Yes ☑ No ☐

**Co-requisites:** Yes ☑ No ☐

N/A

**Requirement or listed choice for any program of study:** Yes ☑ No ☐

**Course is a requirement for a new program:**

**Associate of Applied Science: Information and Communication Technology**

**Overlapping content with present courses offered on campus:** Yes ☑ No ☐

**Additional faculty FTE required:** Yes ☑ No ☐

**Additional equipment required:** Yes ☑ No ☐

**Additional lab facilities required:** Yes ☑ No ☐

**Course description for catalog:**

Introduction to cloud computing and how to install, configure, and manage a cloud environment. Builds on knowledge of hypervisor and virtual machine environments.

**Justification:**

We do not have a class that covers Cloud Computing. It has become a a 7+ billion dollar market using an existing and new set of expanding of technologies.

**Topical course outline:**

I. Discuss cloud deployment models.
   a. Private cloud
   b. Public cloud
   c. Community cloud
   d. Hybrid cloud
   e. Other cloud deployment models.

II. Discuss cloud service models.
   a. Infrastructure-as-a-Service (IaaS).
   b. Platform-as-a-Service (PaaS)
   c. Software-as-a-Service (SaaS)
   d. Other service models

III. Gather cloud hardware and software requirements
    a. Cloud hardware requirements
    b. Cloud software options.
    c. Cloud software requirements
Course Additions

IV. Install and configure base environment for cloud
   a. Install and configure hypervisor.
   b. Install and configure virtual machines.

V. Create cloud portal.
   a. Install cloud portal.
   b. Configure cloud platform
   c. Configure cloud content.

VI. Configure client access.
   a. Configure access to cloud.
   b. Configure access to cloud content

VII. Manage cloud.
   a. Discuss tools available to manage cloud.
   b. Use GUI tools to manage cloud.
   c. Use command-line tools to manage cloud

Student Learning Outcomes:

Evaluate cloud deployment models.
Differentiate between cloud service models.
Investigate cloud hardware requirements.
Investigate cloud software options and respective requirements.
Demonstrate how to build and configure cloud portal in hypervisor environment.
Describe how to configure client access to cloud and cloud applications.
Demonstrate ability to manage cloud using various tools.

Discussions with affected departments:

N/A

Proposed by:  Steve McGraw  
Expected Implementation:  Fall 2017
Course Modifications

TECI 180

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
<td>TECI</td>
</tr>
<tr>
<td>Course No.:</td>
<td>180</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>4</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Cisco Networking 1</td>
</tr>
<tr>
<td>Engage Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Prep Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
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</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐

Change affects program sheet or grad requirements: Yes ☑ No ☐

WCCC  AAS, Tech Integration-Network/Telecommunication Technician: 1328
WCCC  Tech Cert (16 wk), Tech Integration-Certified Network Technician: 1112

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Network Technician Certificate
Information and Communication Technology: Healthcare Information Networking Certificate
Information and Communication Technology: Help Desk Technician Certificate

Justification:

The Cisco curriculum has been improved over the years to the point that student time has been significantly reduced. The majority of lab work is now at the student's computer and is integrated into the online curriculum. Other colleges have followed suit and reduced the number of credit hours to 3. We now compete with a variety of training programs that offer these courses in different formats, including "Boot Camps", that allow much faster completion. This also allows a student to take an additional class within the ~60 credit hour AAS Degree format.

Proposed by: Steve McGraw

Expected Implementation: Fall 2017
Course Modifications

TECI 185

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>185</td>
</tr>
<tr>
<td>Credit Hours:</td>
<td>4</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Cisco Networking 2</td>
</tr>
<tr>
<td>Contact hours:</td>
<td>Lecture 4, Lab 2, Field, Studio, Other</td>
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<tr>
<td></td>
<td>Lecture, Lab, Field, Studio, Other 4.5</td>
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<tr>
<td>Engage Min.:</td>
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<tr>
<td>Prep Min.:</td>
<td>4500</td>
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<tr>
<td>Times for Credit:</td>
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</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

WCCC AAS, Tech Integration-Network/Telecommunication Technician: 1328
WCCC Tech Cert (16 wk), Tech Integration-Certified Network Technician: 1112

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Network Technician Certificate
Information and Communication Technology: Healthcare Information Networking Certificate

Justification:
The Cisco curriculum has been improved over the years to the point that student time has been significantly reduced. The majority of lab work is now at the student’s computer and is integrated into the online curriculum. Other colleges have followed suit and reduced the number of credit hours to 3. We now compete with a variety of training programs that offer these courses in different formats, including "Boot Camps", that allow much faster completion. This also allows a student to take an additional class within the ~60 credit hour AAS Degree format.

Proposed by: Steve McGraw

Expected Implementation: Fall 2017
Course Modifications

TECI 230

Intended semester to offer modified course for the 1st time: Fall 2017

<table>
<thead>
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<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Prefix:</td>
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<tr>
<td>Course No.:</td>
<td>230</td>
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<tr>
<td>Credit Hours:</td>
<td>4</td>
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<tr>
<td>Course Title:</td>
<td>Cisco Networking 3</td>
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<tr>
<td>Contact hours:</td>
<td>Lecture 4</td>
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<tr>
<td></td>
<td>Lab 2</td>
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<tr>
<td></td>
<td>Field</td>
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<tr>
<td></td>
<td>Studio</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
<tr>
<td>Engage Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Prep Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
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</table>

Requirement or listed choice for any program of study: Yes ☑ No ☐
Change affects program sheet or grad requirements: Yes ☑ No ☐

WCCC   AAS,   Tech Integration-Network/Telecommunication Technician: 1328
WCCC   Tech Cert (16 wk),   Tech Integration-Certified Network Technician: 1112

Course is a requirement for a new program:
- Information and Communication Technology: Associate of Applied Science
- Information and Communication Technology: Network Technician Certificate
- Information and Communication Technology: Healthcare Information Networking Certificate
- Information and Communication Technology: Help Desk Technician Certificate

Justification:
The Cisco curriculum has been improved over the years to the point that student time has been significantly reduced. The majority of lab work is now at the student's computer and is integrated into the online curriculum. Other colleges have followed suit and reduced the number of credit hours to 3. We now compete with a variety of training programs that offer these courses in different formats, including "Boot Camps", that allow much faster completion. This also allows a student to take an additional class within the ~60 credit hour AAS Degree format.

Proposed by: Steve McGraw
Expected Implementation: Fall 2017
**Course Modifications**

**TECI 235**

Intended semester to offer modified course for the 1st time:  **Fall 2017**

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<td>Credit Hours:</td>
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<td>Course Title:</td>
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</tr>
<tr>
<td>Contact hours:</td>
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<td>Studio</td>
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<td>Engage Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Prep Min.:</td>
<td>4500</td>
</tr>
<tr>
<td>Times for Credit:</td>
<td>1</td>
</tr>
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Requirement or listed choice for any program of study:  **Yes**  
Change affects program sheet or grad requirements:  **Yes**

WCCC  AAS,  Tech Integration-Network/Telecommunication Technician:  1328  
WCCC  Tech Cert (16 wk),  Tech Integration-Certified Network Technician:  1112  

Course is a requirement for a new program:

Information and Communication Technology: Associate of Applied Science
Information and Communication Technology: Network Technician Certificate
Information and Communication Technology: Healthcare Information Networking Certificate
Information and Communication Technology: Help Desk Technician Certificate

Justification:

The Cisco curriculum has been improved over the years to the point that student time has been significantly reduced. The majority of lab work is now at the student's computer and is integrated into the online curriculum. Other colleges have followed suit and reduced the number of credit hours to 3. We now compete with a variety of training programs that offer these courses in different formats, including "Boot Camps", that allow much faster completion. This also allows a student to take an additional class within the ~60 credit hour AAS Degree format.

Proposed by:  **Steve McGraw**  
Expected Implementation:  **Fall 2017**
Course Deletions

TECI 251  Credit Hours  3

Course Title:  Leadership

Essential Learning Course:  Yes  No  ☑

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐

WCCC  AAS, Tech Integration-Network/Telecommunication Technician:  1328
WCCC  Tech Cert (16 wk), Tech Integration-Certified Network Technician:  1112
WCCC  Tech Cert (16 wk), Tech Integration-Computer Technician:  1113
WCCC  Tech Cert (N-Z), Tech Integration-Network Technician:  1322
WCCC  Tech Cert (N-Z), Tech Integration-Telecommunication VoIP Technician:  1330

Prerequisite for other course(s):  Yes  ☐  No  ☑

Co-requisite for other course(s):  Yes  ☐  No  ☑

Justification:
This class is deleted to allow the addition of classes that teach more relevant skills to entry-level employees. Leadership skills are obviously important, but local and regional employers state that their primary employee concerns are attendance, punctuality, and appropriate employee interactions. One employer stated that successful ICT work, like most work, is 80% customer service and 20% technical knowledge. Two classes, ABUS 128 Workplace Behavior and ABUS 160 Intro to Customer Service, are added to the ICT program.

Proposed by:  Steve McGraw  Expected Implementation:  Fall 2018
**Course Deletions**

**TECI 290**  
**Credit Hours** 1

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Certification</th>
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</table>

<table>
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<tr>
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<th>No</th>
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</table>

<table>
<thead>
<tr>
<th>Requirement or listed choice for any program of study:</th>
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<th>No</th>
</tr>
</thead>
</table>

WCCC  AAS,  Tech Integration-Network/Telecommunication Technician: 1328  
WCCC  Tech Cert (16 wk),  Tech Integration-Certified Network Technician: 1112  
WCCC  Tech Cert (N-Z),  Tech Integration-Telecommunication VoIP Technician: 1330  
WCCC  Tech Cert (N-Z),  Tech Integration-Network Technician: 1322  
WCCC  Tech Cert (16 wk),  Tech Integration-Computer Technician: 1113  

<table>
<thead>
<tr>
<th>Prerequisite for other course(s):</th>
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<th>No</th>
</tr>
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<table>
<thead>
<tr>
<th>Co-requisite for other course(s):</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Justification:**  
Updating the program to match current CISCO and other computer courses of Colorado Community College System.

**Proposed by:**  Steve McGraw  
**Expected Implementation:**  Fall 2018

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Program Deletion

Department: WCCC-Info/Communication Technology
Degree Type: AAS
Program: Tech Integration-Network/Telecommunication Technician: 1328

Justification:
This program is being replaced by a new program that has updated courses and reflects current work force needs.

Teach-out Plan:
Students will have until Spring of 2018 to finish their current program. Updated versions of required courses will be accepted for credit for students currently in this track. Courses not updated will continue to offered.

Course substitutions:
Old course - TECI 245 Security Fundamentals      New course - TECI 131 Principles of Information Assurance
Old course - TECI 240 VoIP Fundamentals           New course - TECI 165 Convergent Technologies

Term and year in which all students will have completed: Spring 2018
Year to reexamine program’s status: 2018

Proposed by: Steve McGraw

Director of Teacher Education Signature:
Program Deletion

Department: WCCC-Info/Communication Technology
Degree Type: Tech Cert
Program: Tech Integration-Network Technician: 1322

Justification:
This program is being replaced by a new program that has updated courses and reflects current work force needs

Teach-out Plan:
There are no students in this program

Term and year in which all students will have completed: Fall 2017
Year to reexamine program's status: N/A

Proposed by: Steve McGraw
Director of Teacher Education Signature:
Program Deletion

Department: WCCC-Info/Communication Technology
Degree Type: Tech Cert
Program: Tech Integration-Telecommunication VoIP Technician: 1330

Justification:
This program is being replaced by a new program that is updated with additional technologies and reflects current work force needs

Teach-out Plan:
There are no students in this program

Term and year in which all students will have completed: Fall 2017
Year to reexamine program's status: N/A

Proposed by: Steve McGraw

Director of Teacher Education Signature:

Program Deletion

Department: WCCC-Manufacturing Supervision
Degree Type: Tech Cert (A-M)
Program: Manufacturing Supervision (not active 2016-17): 1339

Justification:
This program was deactivated in January 2015, and per the deactivation timeline, now needs to be officially deleted as there are no plans to reactivate it.

Teach-out Plan:
N/A

Term and year in which all students will have completed: Spring 2016
Year to reexamine program’s status: N/A

Proposed by: Christine Murphy
Director of Teacher Education Signature:
**Course Additions**

**MOAP 110**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>4</th>
</tr>
</thead>
</table>

**Course Title:** Medical Office Administration

**Abbreviated Title:** Medical Office Admin

**Contact hours per week:**
- **Lecture:** 4
- **Lab:**
- **Field:**
- **Studio:**
- **Other:**

**Type of Instructional Activity:** Lecture

**Academic engagement minutes:** 3000

**Student preparation minutes:** 6000

**Intended semesters for offering this course:**
- Fall ✔
- J-Term ✔
- Spring ✔
- Summer ✔

**Intended semester to offer course 1st time:** Fall 2017

**Number of times course may be taken for credit:** 1

**Essential Learning Course:** Yes ❑ No ❑

**Prerequisites:** Yes ❑ No ❑

**Prerequisite for other course(s):** Yes ❑ No ❑

**Co-requisites:** Yes ❑ No ❑

**Requirement or listed choice for any program of study:**
- Yes ✔
- No ❑

**WCCC AAS, Medical Office Assistant: 1396**

**Overlapping content with present courses offered on campus:**
- Yes ❑ No ❑

**Additional faculty FTE required:** Yes ❑ No ❑

**Additional equipment required:** Yes ❑ No ❑

**Additional lab facilities required:** Yes ❑ No ❑

**Course description for catalog:**

Learn to perform the administrative duties specifically used in medical offices.

**Justification:**

The justification for adding the course is updating the Associates of Applied Science degree in Medical Office Technology.

**Topical course outline:**

**I. PROFESSIONAL AND CAREER RESPONSIBILITIES**

A. Career Opportunities
B. Medical Practice Settings
C. Legal and Ethical Responsibilities

**II. INTERPERSONAL COMMUNICATIONS**

A. Front Office Requirements
B. Telephone Procedures
C. Appointment Scheduling

**III. RECORDS MANAGEMENT**

A. Patient’s Medical Records
B. Drug and Prescription Records
C. Filing Procedures

**IV. ADMINISTRATIVE RESPONSIBILITIES**

A. Office Maintenance and Management
B. Written and transcribed Correspondence
Course Additions

C. Processing Mail and Telecommunications

D. Professional Reports and Travel Arrangements

V. COMMUNITY RESOURCES

Student Learning Outcomes:

Describe career possibilities and areas of specialization open to a medical administrative assistants, discuss how managed care affects the medical office, analyze health care settings and be able to compare and contrast their similarities and differences, define the different types of medical specialties (I)

Describe informed consent (I)

Explain the principle governing release, retention and subpoena of medical records (I)

Simulate the activities of a front desk medical administrative assistant such as greeting patients, managing a patient emergency, supervising the completion of written patient information, inspect and maintain orderliness in the reception room, and identify verbal and nonverbal communication in multicultural situations (II)

Demonstrate the ability to coordinate answering service activities, role play incoming calls with courtesy and knowledge, correctly write down messages, and explain the use of voice mail, conference calls and pagers (II)

Illustrate the ability to handle problem appointments and emergency situations diplomatically, enhance patient flow using proper scheduling techniques and manage referral appointments (II)

List the reasons for keeping a medical record, distinguish subjective from objective information, understand the contents of a history and physical examination report, and be able to describe the types of documents in the patients’ record (III)

Demonstrate ability to read a prescription, explain the three types of drug names, and define the five schedules of controlled substances (III)

Determine the retention period for temporary and permanent record, understand the advantages of a numerical filing system, name the steps taken to control medical records, report how to transfer and dispose of records and confidential materials, and file patient records using standardized alphabetical rules (III)

Describe ways of increasing office productivity, set up a maintenance file for office equipment, correctly fill out a purchase order, list steps to minimize the incidence of fire, theft, and accidents, apply a routine for maintaining a running inventory of supplies, discuss reasons for staff meetings, show an understanding of the laws of medical waste disposal, and give examples of items in an office procedures manual and an employee handbook

Describe examples of the capabilities of word processing equipment and transcription machines, demonstrate proper proofreading techniques, identify types of memos and letters and use proper formats, use a transcription machine to prepare an office documents (IV)

Determine the most economical classification for mailing various communications, explain the rules and operating procedures for fax transmissions, and simulate the proper distribution of mail (IV)

Demonstrate the references available for further medical research and literature, summarize what a curriculum vitae is and how it is used, demonstrate the ability to set up all necessary travel arrangements for a business trip

Discussions with affected departments:

N/A

Proposed by: Christine Murphy

Expected Implementation: Fall 2017
**Course Additions**

**MOAP 130**

Course Title: Medical Office Administration Insurance Billing and Coding

Abbreviated Title: Ins. Billing & Coding

Contact hours per week: Lecture 3 Lab Field Studio Other

Type of Instructional Activity: Lecture

Academic engagement minutes: 2250

Student preparation minutes: 4500

Intended semesters for offering this course: Fall ✔ J-Term ☐ Spring ✔ Summer ☑

Intended semester to offer course 1st time: Fall 2017

Number of times course may be taken for credit: 1

Essential Learning Course: Yes ☑ No ☐

Prerequisites: Yes ☑ No ☐

Prerequisite for other course(s): Yes ☑ No ☐

Co-requisites: Yes ☑ No ☐

Requirement or listed choice for any program of study: Yes ☑ No ☐

WCCC AAS, Medical Office Assistant: 1396

Overlapping content with present courses offered on campus: Yes ☑ No ☐

Additional faculty FTE required: Yes ☑ No ☐

Additional equipment required: Yes ☑ No ☐

Additional lab facilities required: Yes ☑ No ☐

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**Course description for catalog:**

Introduction to outpatient coding with topics including identifying medical procedures and services performed (CPT codes), correlating the diagnosis, symptom, complaint or condition (ICD-9 codes), and establishing the medical necessity required for third-party reimbursement.

**Justification:**

The justification for adding the course is updating the Associates of Applied Science degree in Medical Office Technology.

**Topical course outline:**

I. ICD-9 Coding
II. CPT Coding
III. HCPCS Coding
IV. Billing and Collection
V. Filing a HCFA-1500 Claim Form
VI. Reimbursement, Auditing and Appeals

**Student Learning Outcomes:**

Identify the correct primary diagnoses; follow ICD-9 rules and regulations and code accurately by utilizing resources appropriately.

Describe the components of the evaluation and management codes, distinguish the different levels of service, and identify the specific categories and subcategories. Identify when modifiers are needed and use the appropriate code.

Describe through accurately and completely classify procedures applicable to:

- Anesthesia, Integument system, Orthopedics, Cardiology, OB/GYN, Radiology, Pathology, Lab
- Define and distinguish what codes are HCPCS. Accurately and completely code supplies using HCPCS.

---

Course Additions

Prepare a ledger card showing charges, payments and adjustments and how the patient balance is affected. Identify the types of bookkeeping systems and billing cycles and know their advantages and disadvantages. Explain account aging and the purpose of the aging analysis.

Define information from the patient medical record to complete the HCFA 1500 form correctly. Differentiate between a participating and non-participating provider. Define and explain the two types of Medicare coverage. Define and explain the functions of managed care organizations and other third party payers and how they affect health care and reimbursement.

Describe the need for insurance claim follow-up. Identify problem claims and know how to request a review or pursue an appeal. Pinpoint discrepancies in billing and documentation. Recognize and identify audit flags, compliance concepts, and evaluation and management code guidelines.

Discussions with affected departments:

N/A

Proposed by: Christine Murphy  Expected Implementation: Fall 2017
Program Modification

Medical Office Assistant: 1396

Degree Type: AAS

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Remove OFAD 118, OFAD 147, OFAD 249 and added four courses MOAP 110, MOAP 130 and MOAP 249, MOAP 131. Clearer justification of Essential Learning Requirements ENGL 111 and ENGL 112 or SPCH 102.

Justification:
Updating the Associates Degree of Applied Science in Medical Office Assistant renaming the OFAD programs to MOAP.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☐ No ☑

N/A

Discussions with affected departments:
N/A

Proposed by: Christine Murphy
Director of Teacher Education Signature:

Expected Implementation: Fall 2017
## Course Deletions

**OFAD 118**  
Credit Hours: 3

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Essential Learning Course</th>
<th>Requirement or listed choice for any program of study</th>
<th>WCCC AAS, Medical Office Assistant: 1396</th>
<th>WCCC AAS, Electric Lineworker: 1391</th>
<th>WCCC Tech Cert (A-M), Medical Office Assistant: 1158</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to PC Applications</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

**Proposed by:** Christine Murphy  
**Expected Implementation:** Fall 2017

**Justification:**  
Updating the Medical Office Assistant program. The course material is taught in new course.
Course Deletions

OFAD 249  Credit Hours  3

Course Title:  Medical Office Procedures

Essential Learning Course:  Yes  No  ☑

Requirement or listed choice for any program of study:  Yes  ☑  No  ☐

WCCC  AAS,  Medical Office Assistant:  1396

Prerequisite for other course(s):  Yes  ☐  No  ☑

Co-requisite for other course(s):  Yes  ☐  No  ☑

Justification:
Updating the Medical Office Assistant program. The course material is taught in new course.

Proposed by:  Christine Murphy  Expected Implementation:  Fall 2017
Course Deletions

REEB 201  Credit Hours  6
Course Title: Real Estate Broker I
Essential Learning Course: Yes ☑ No ☐ ☑
Requirement or listed choice for any program of study: Yes ☑ No ☐ ☑
WCCC Tech Cert (N-Z), Real Estate Broker: 1130
Prerequisite for other course(s): Yes ☑ No ☐ ☑
REEB 202
Co-requisite for other course(s): Yes ☑ No ☐ ☑
REEB 202, it is also being deleted.

Justification:
This course is soley used in the Real Estate Broker Certificate we are deleting.

Proposed by: Christine Murphy
Expected Implementation: Fall 2017
### Course Deletions

**REEB 202**  
**Credit Hours:** 6

**Course Title:** Real Estate Broker II

**Essential Learning Course:** Yes ☐ No ☑

**Requirement or listed choice for any program of study:** Yes ☑ No ☐

**WCCC Tech Cert (N-Z), Real Estate Broker:** 1130

**Prerequisite for other course(s):** Yes ☐ No ☑

**Co-requisite for other course(s):** Yes ☐ No ☑

**Justification:**

This course is solely used in the Real Estate Broker Certificate that is being deleted.

**Proposed by:** Christine Murphy  
**Expected Implementation:** Fall 2017

---

Program Deletion

Department: WCCC-Real Estate Broker
Degree Type: Tech Cert (N-Z)
Program: Real Estate Broker: 1130

Justification:
No Students have enrolled in the Real Estate Broker program for years. It previously was deactivated and needs to be deleted.

Teach-out Plan:
This program only has 2 courses in the program, they are not used by any other program. No one has been enrolled for years so no teach out is needed.

Term and year in which all students will have completed: Fall 2016
Year to reexamine program's status: N/A

Proposed by: Christine Murphy

Director of Teacher Education Signature:
Program Modification

Water Quality Management: 1365

Degree Type: AAS

Revision to program sheet: Yes ☑ No ☐

Description of modification:
Remove PROS 100, PROS 110, PROS 130, PROS 210, TECI 110 and WQMS 227 from degree requirements and add new course additions WQMS 126, WQMS 127, WQMS 150, WQMS 202, WQMS 203, WQMS 216 and modify course sequencing. Also, adding CHEM 121 and CHEM 121L to Essential Learning Requirements and removing them from the course requirements.

Justification:
The new courses needed in Water Quality Management will be added to help the student pass the Class A, B, C and D tests.

Revision to SLOs: Yes ☐ No ☑

Other changes: Yes ☑ No ☐

Discussions with affected departments:
N/A

Proposed by: Christine Murphy

Director of Teacher Education Signature:

Expected Implementation: Fall 2017