DUAL DEGREE: B.A. IN MUSIC (from Butler University)
PLUS B.S. IN ELECTRICAL ENGINEERING (from Purdue University)

- Engineering contact: Jessica McCormick, 317-940-9021, jrmccorm@butler.edu
- The B.A. degree in Music requires 124 hours.
  - 66 hours must be non-music credits.
  - 40 hours must be 300 or 400-level courses.
- The Dual Degree of Music and Electrical Engineering will fulfill the following Areas of Inquiry in the Butler University Core Curriculum: Perspectives of the Creative Arts, The Natural World, The Social World, and Analytical Reasoning. In addition, the B.A. Music curriculum fulfills the Writing Across the Curriculum, Speaking Across the Curriculum, and Social Justice and Diversity requirements of the Butler University Core Curriculum; music majors are exempted from the Butler Cultural Requirement because of the arts event attendance requirements for all arts majors. The Indianapolis Community Requirement is NOT satisfied.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>AM 021*</td>
<td>AM 022*</td>
</tr>
<tr>
<td>Keyboard Skills 1</td>
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</tr>
<tr>
<td>AM ___</td>
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<tr>
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<tr>
<td>ES ___</td>
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<tr>
<td>Major Ensemble</td>
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</tr>
<tr>
<td>MT 101</td>
<td>MT 102</td>
</tr>
<tr>
<td>Music Theory 1</td>
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<tr>
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<tr>
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<td>CH 106</td>
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<tr>
<td>DD 190</td>
<td>MA 106**</td>
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<td>Calculus &amp; Anal. Geo. 1</td>
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*If the major instrument is piano, the student should take AM 031, Piano Major: Keyboard Skills 1 and AM 032, Piano Major: Keyboard Skills 2 instead of AM 021, AM 022, AM 023, and AM 024.

**Math placement test required. There is the possibility that the student will need to take MA 101 (Algebra, 3 cr.) and/or MA 102 (Precalculus, 3 cr.) prior to MA 106 and MA 107.

TOTAL Credit Hours: 20  20

<table>
<thead>
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<th>Semester 3</th>
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<tr>
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TOTAL Credit Hours: 20  20
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<tr>
<td>MH 308-SJD</td>
<td>ME 330-C</td>
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<td>ECE 20200</td>
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<td>MA 215</td>
<td>ECE 25500</td>
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<td>PH 351-W</td>
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<td>ECE 48800</td>
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<td>ECE 44000</td>
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**SUMMARY**

**REQUIRED MUSIC COURSES:**

Note: The 10-semester sequence shown above includes AM 021 and AM 022, 12 additional hours of Applied Music, and 4 additional hours of Major Ensemble, in addition to the courses listed below. While not required in the B.A. degree, most music majors will take these additional classes for placement or scholarship reasons.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AM 023, 024+</td>
<td>Keyboard Skills 3, 4</td>
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<td>ES ___</td>
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<td>ME 330-C</td>
<td>Self-Representation for Musicians</td>
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<td>ME 430</td>
<td>E-Portfolio Capstone</td>
<td>0</td>
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<tr>
<td>MH 305</td>
<td>Music History and Literature 1</td>
<td>2</td>
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<tr>
<td>MH 306-W</td>
<td>Music History and Literature 2</td>
<td>3</td>
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<td>MH 307</td>
<td>Music History and Literature 3</td>
<td>3</td>
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<tr>
<td>MH 308-SJD</td>
<td>Music in Global Contexts</td>
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<tr>
<td>MT 101</td>
<td>Music Theory 1</td>
<td>3</td>
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<tr>
<td>MT 111</td>
<td>Aural Skills 1</td>
<td>1</td>
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<tr>
<td>MT 102</td>
<td>Music Theory 2</td>
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<tr>
<td>MT 112</td>
<td>Aural Skills 2</td>
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<tr>
<td>MT 201</td>
<td>Music Theory 3</td>
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<tr>
<td>MT 211</td>
<td>Aural Skills 3</td>
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<td>MT 202</td>
<td>Music Theory 4</td>
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<td>MT 212</td>
<td>Aural Skills 4</td>
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**TOTAL** 44 (plan shows 62 music credits per the note above)

**BUTLER UNIVERSITY CORE CURRICULUM:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>3, 3</td>
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<tr>
<td>GHS ___</td>
<td>Global &amp; Historical Studies</td>
<td>3, 3</td>
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<td>TI ___</td>
<td>Texts and Ideas</td>
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<tr>
<td>PWB ___</td>
<td>Physical Well Being/Marching Band</td>
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**TOTAL** 16

**COURSES REQUIRED FOR THE ELECTRICAL ENGINEERING DEGREE:**

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>CH 106</td>
<td>General Chemistry 2</td>
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<tr>
<td>COM 101</td>
<td>Rhetoric &amp; the Amer Dem Tradition</td>
<td>3</td>
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<tr>
<td>CS 142</td>
<td>Intro to Computer Sci &amp; Prog</td>
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<tr>
<td>DD 190</td>
<td>Elementary Engineering Design</td>
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<td>DD 297</td>
<td>MATLAB</td>
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<tr>
<td>ECE 20200</td>
<td>Circuit Analysis 2</td>
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<td>ECE 20800</td>
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<td>Advanced Computer Programming</td>
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<td>ECE 27000</td>
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<td>Signals and Systems</td>
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<td>ECE 30200</td>
<td>Probabilistic Methods</td>
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<td>ECE 31100</td>
<td>Electric and Magnetic Fields</td>
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<td>ECE 36200</td>
<td>Microprocessors Sys &amp; Interface</td>
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<td>ECE 38200</td>
<td>Feedback Systems Analysis</td>
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<td>ECE 40100</td>
<td>Engineering Ethics</td>
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<tr>
<td>Course Code</td>
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<td>ECE 44000</td>
<td>Intro to Comm System Analysis</td>
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<td>ECE 48700</td>
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**Total** 115

*Students get credit for MA 106 if they receive a 4 or 5 on the Calculus AB AP exam; they receive credit for both MA 106 and MA 107 if they receive a 4 or 5 on the Calculus BC AP exam with a 4 or 5 on the AB subscore.*