MIKE CURB COLLEGE OF ENTERTAINMENT AND MUSIC BUSINESS
COURSE SYLLABUS

<table>
<thead>
<tr>
<th>Course # / Title:</th>
<th>CRN 10081, AET 1380.05, MELE 102.01 /Survey of Recording Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Credit Hours:</td>
<td>3 Credit Hours</td>
</tr>
<tr>
<td>Semester:</td>
<td>Fall 2009</td>
</tr>
<tr>
<td>Instructor:</td>
<td>David Tough, MBA, B.A.</td>
</tr>
<tr>
<td>Instructor Contacts:</td>
<td>(615) 554-6693 (cell), <a href="mailto:david.tough@belmont.edu">david.tough@belmont.edu</a></td>
</tr>
<tr>
<td>Instructor Office Hours:</td>
<td># 206 Sony Building, TR 12-3, Friday 2-3</td>
</tr>
<tr>
<td>Class Location:</td>
<td>Belmont-MCREMSB25 (Massey Center R. E. Mulloy Studios, Room B25) MELE- BLD2 416</td>
</tr>
<tr>
<td>Meeting Time(s):</td>
<td>1-1:50 PM MWF, Aug 26-Dec 15; MELE 8-8:50 MWF; Aug 24-Dec 18</td>
</tr>
<tr>
<td>Final Exam:</td>
<td>Friday, December 11, 2-5 PM (Room B25)</td>
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</table>

Course Description:

AET 1380. Survey of Recording Technology (3). A study of the major areas of recording technology as related to the music industry. The student receives an overview of analog and digital technology with attention to its innovations, history, and effect on the music industry.

Course Outcomes: At the end of this course the student will be able to:
- recall significant events, technologies, and individuals that have influenced music-recording.
- identify fundamental properties of sound with regard to differences in spectral, dynamic, and spatial characteristics of recordings.
- recognize examples of historically significant music-recordings.
- recall knowledge about and apply basic skills related to the music-recording process.

Performance Tasks: During this course the student will:
- arrange and relate recording devices, mediums, and inventors chronologically in a historical timeline.
- describe how recording devices and mediums differed, affected the sound quality of resultant recordings, and changed the recording process.
- listen and classify examples of music-recordings from the acoustic, electrical, and digital eras.
- observe and describe the recording process.
- practice and perform basic music recording techniques.

Assessment Tools: During this course, outcomes mastery will be evaluated by:
- short answer quizzes and multiple-choice tests based on lectures, assigned readings, and class listening examples.
- written observations of studio recording sessions.
- completion of a collaborative mix project.
- completion of a collaborative final recording project or class presentation.
- a comprehensive written exam based on lectures, assigned readings, and listening.

Testing & Assignments:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Credit</th>
<th>Purpose/Description</th>
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</thead>
<tbody>
<tr>
<td>1. Tests (4)</td>
<td>400 points (100 points each) 40%</td>
<td>Based on lectures, tests will assess the student’s knowledge base of the topic.</td>
</tr>
<tr>
<td>2. Quizzes (4)</td>
<td>40 points (10 points each) 4%</td>
<td>Based on lectures, PowerPoint presentations, class discussions, reading assignments, handouts, and vocabulary</td>
</tr>
<tr>
<td>3. Mix Project</td>
<td>100 points 10%</td>
<td>A collaborative group mix project demonstrates the student’s ability to use classroom studio equipment. Grading is achieved by a mix rubric.</td>
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<tr>
<td>4. Studio Observation Report (4)</td>
<td>140 points (35 points each) 14%</td>
<td>A three page summary of observed recording sessions @ Belmont Studios</td>
</tr>
<tr>
<td>5. Recording Project</td>
<td>120 points 12%</td>
<td>A collaborative group recording project demonstrates the student’s ability to record a song using classroom studio equipment. Accompanied by a three-page report documenting procedure, the</td>
</tr>
</tbody>
</table>
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COURSE SYLLABUS

| or | 120 points 12% | In lieu of a final recording project, students will give a PPT presentation accompanied by a five-page report of a instructor-approved subject that elates to recording technology. Paper must cite a minimum of (5) references and use MLA or APA format. |
| 5b. Class Presentation | 200 points 20% | A comprehensive test of multiple-choice questions that will measure the depth of the student’s knowledge base of the course topics and short-answer questions that will assess the student’s assimilation of knowledge gained from lectures and readings. |

Course & Classroom Policies:

Attendance & Participation:
Class attendance follows university policy as stated in the current Undergraduate Bulletin. Class participation is expected; attendance and absence will be noted.

http://www.belmont.edu/catalog/undergrad2009jun/index.html

Points (%) will be deducted from the final grade for unexcused absences. 1 absence, 1.5%; 2 absences, 3%; 3 absences, 4.5%; 4 absences, 6%; 5 absences, 7.5%; 6 absences, 9%; 7 absences, 10.5%; 8 absences, 12%; 9 absences, 13.5%; 10 absences, the student will be dropped from the class with a failing grade (WF).

Materials:
Note: Audio in Media 7th edition is preferred text – can be purchased online but not in bookstore.

AET 1380 Workbook (required, available in bookstore).

Grade Evaluation: As per CEMB policy, the grade assignment scale for this course is:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent (GPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>94 (4.0)</td>
</tr>
<tr>
<td>A-</td>
<td>90 (3.7)</td>
</tr>
<tr>
<td>B+</td>
<td>87 (3.3)</td>
</tr>
<tr>
<td>B</td>
<td>84 (3.0)</td>
</tr>
<tr>
<td>B-</td>
<td>80 (2.7)</td>
</tr>
<tr>
<td>C+</td>
<td>77 (2.3)</td>
</tr>
<tr>
<td>C</td>
<td>74 (2.0)</td>
</tr>
<tr>
<td>C-</td>
<td>70 (1.7)</td>
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</table>

Final grades below 70% will not apply to the major.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
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<tbody>
<tr>
<td>D+</td>
<td>67</td>
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<tr>
<td>D</td>
<td>64</td>
</tr>
<tr>
<td>D-</td>
<td>60</td>
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<tr>
<td>F</td>
<td>&lt; 60</td>
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</table>

All test dates are noted in the class schedule. Quizzes may be unannounced. **No makeup tests or quizzes will be given.** The final test is a comprehensive exam. Test dates may be subject to change with exception of the final exam. No electronic devices of any kind maybe used during exams. Opportunity to earn extra credit in the amount of 4% may be given during the semester and added to your final grade.

Honor Code: It is the responsibility of each student to abide by the Belmont University Honor Code. “In affirmation of the Belmont University Statement of Values, I pledge that I will not give or receive aid during examinations; I will not give or receive false or impermissible aid in course work, in preparation of reports, or in any other type of work that is to be used by the instructor as the basis of my grade; I will not engage in any form of
academic fraud. Furthermore, I will uphold my responsibility to see to it that others abide by the spirit and letter of this Honor Pledge.”

**Accommodation of Disabilities:** In compliance with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act, Belmont University will provide reasonable accommodation of all medically documented disabilities. If you have a disability and would like the university to provide reasonable accommodations of the disability during this course, please notify the Office of the Dean of Students located in Beaman Student Life Center (460-6407) as soon as possible.

**Other:**

**Class Webpage:**  http://campus.belmont.edu/mb/AET1380/

1) The B25 classroom will be treated like any other studio; NO food or drink permitted at any time, except bottled water with a cap.

2) Although I allow laptops for note taking, I strongly encourage no internet surfing in class, those who surf for personal reasons usually do not do as good in the class, simply because they are not taking the material in.

3) Remember to fill out a course evaluation on BIC at the end of the semester so I can improve this course.

4) Please keep all AET/music business course materials (including AET 1380 notes/handouts), even after you have completed this course. You may need them for future courses.
<table>
<thead>
<tr>
<th>DATE</th>
<th>DAY</th>
<th>TOPIC</th>
<th>ASSIGNMENTS/ACTIVITIES</th>
<th>READING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26-Aug</td>
<td>Orientation &amp; Introduction</td>
<td>Play Sony Rome Demonstration</td>
<td>Read workbook pp 1-64</td>
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<td></td>
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<td>Show class website</td>
<td></td>
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<tr>
<td>2</td>
<td>28-Aug</td>
<td>Lecture 1 - Beginnings of Recording Pt 1</td>
<td>Assign Tinfoil.com essay</td>
<td>Studio roles/careers handout</td>
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<td>Take class pictures</td>
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<tr>
<td>3</td>
<td>31-Aug</td>
<td>Lecture 2 - Basic Properties of Sound</td>
<td><strong>Tinfoil.com essay due</strong></td>
<td>Read these handouts -</td>
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<td>Observation requirements/rubric,</td>
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<td></td>
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<td>Wished Learned in school, etc</td>
</tr>
<tr>
<td>4</td>
<td>2-Sep</td>
<td>Lecture 3 - How do we describe sound?</td>
<td>Tech TV video/Ruebens tube video</td>
<td>Project 1 - Tutorial Explanation</td>
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<td></td>
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<td>Type class emails - laptop</td>
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<tr>
<td>5</td>
<td>4-Sep</td>
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<td>Observation &quot;how to&quot;</td>
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<td>Fill in tutorial worksheets, Form lab groups</td>
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<tr>
<td>7-Sep</td>
<td>Mon</td>
<td>No Class  - Labor Day</td>
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<tr>
<td>6</td>
<td>9-Sep</td>
<td>Lecture 3 - How do we describe sound? ctd</td>
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<tr>
<td>7</td>
<td>11-Sep</td>
<td>Lecture 4 - Beginnings of Recording</td>
<td>Audio in Media Ch 1/2 pp 1-22</td>
<td></td>
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<tr>
<td>8</td>
<td>14-Sep</td>
<td>Lecture 5 - An Early Session</td>
<td>½ pp summary of magnetic recording</td>
<td></td>
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<tr>
<td>9</td>
<td>16-Sep</td>
<td>Lecture 6 - Overtones, Phase, ADSR</td>
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<tr>
<td></td>
<td></td>
<td>Lecture 6 - Overtones, Phase, ADSR ctd</td>
<td>Read workbook pp 107-115</td>
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<tr>
<td>10</td>
<td>18-Sep</td>
<td>Lecture 7 - Electrical Recording</td>
<td>In class phase experiment</td>
<td></td>
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<tr>
<td>11</td>
<td>21-Sep</td>
<td>Catch up on Lecture/Listening</td>
<td>Connections DVD</td>
<td></td>
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<tr>
<td>12</td>
<td>23-Sep</td>
<td>Lecture 8 - Psychoacoustics</td>
<td></td>
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<tr>
<td>13</td>
<td>25-Sep</td>
<td>Lecture 9 - The Ear</td>
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<tr>
<td>14</td>
<td>28-Sep</td>
<td>Lecture 10- Electrical instruments/1930s</td>
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<tr>
<td>15</td>
<td>30-Sep</td>
<td>Test Review</td>
<td></td>
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<tr>
<td>16</td>
<td>2-Oct</td>
<td><strong>TEST #1</strong></td>
<td><strong>OBSERVATION #1 Due</strong></td>
<td>Read workbook pp 62, 68-70, 92, 93</td>
</tr>
<tr>
<td>17</td>
<td>5-Oct</td>
<td>Lecture 11 - Microphones - Intro &amp; Design</td>
<td></td>
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</tr>
<tr>
<td>18</td>
<td>7-Oct</td>
<td>Lecture 11- Microphones - Characteristics</td>
<td>Class views condensor/ribbon mics</td>
<td>Read Ch 3 AIM</td>
</tr>
<tr>
<td>19</td>
<td>9-Oct</td>
<td>Lecture 11- Microphones - Characteristics ctd</td>
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<tr>
<td></td>
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<td>Lecture 11- Microphones - Polar Patterns</td>
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<tr>
<td>20</td>
<td>12-Oct</td>
<td>Lecture 11 - Microphones - Stereo, etc</td>
<td></td>
<td>Read Birth of LP (workbook)</td>
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</tbody>
</table>
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## COURSE SYLLABUS

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 12</td>
<td></td>
<td>Life Cycle of Sound</td>
<td></td>
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<tr>
<td>Lecture 13</td>
<td></td>
<td>The LP</td>
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<tr>
<td>21 Oct</td>
<td>Wed</td>
<td><strong>TEST #2 / Project 1 Due</strong></td>
<td><strong>OBSERVATION #2 Due</strong></td>
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<td></td>
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<td>Read AIM Analog Rec Handout</td>
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<tr>
<td>16 Oct</td>
<td>Fri</td>
<td>Fall Break - No class</td>
<td></td>
</tr>
<tr>
<td>22 Oct</td>
<td>Mon</td>
<td>Lecture 14 - 40s/50s Recording</td>
<td>Complete Les Paul Worksheet</td>
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<td>Les Paul DVD</td>
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<tr>
<td>23 Oct</td>
<td>Wed</td>
<td>Lecture 14 - 40s/50s Recording</td>
<td>Complete Les Paul Worksheet</td>
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<td></td>
<td>Les Paul DVD</td>
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<tr>
<td>24 Oct</td>
<td>Fri</td>
<td>Lecture 15 - Analog Recording</td>
<td>Read workbook pp 76-99</td>
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<tr>
<td>25 Oct</td>
<td>Mon</td>
<td>Lecture 15 - Analog Recording ctd</td>
<td></td>
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<tr>
<td>26 Oct</td>
<td>Wed</td>
<td>Lecture 16 - Signal Processors **</td>
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<tr>
<td>27 Oct</td>
<td>Fri</td>
<td>Lecture 16 - Signal Processors ctd</td>
<td>RCA B Handout</td>
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<tr>
<td>28 Oct</td>
<td>Mon</td>
<td>RCA Studio B Tours - Luke Gilfeather</td>
<td>Fill in tutorial worksheets</td>
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<td>Project 2 Handout</td>
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<tr>
<td>29 Oct</td>
<td>Wed</td>
<td>Discuss Project 2 / Review for Test 2</td>
<td></td>
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<tr>
<td>30 Oct</td>
<td>Fri</td>
<td><strong>TEST #3</strong></td>
<td><strong>OBSERVATION #3 Due</strong></td>
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<td></td>
<td>Read workbook pp 94-106</td>
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<tr>
<td>31 Oct</td>
<td>Mon</td>
<td>Lecture 17 - The Audio Console</td>
<td>Grade updates</td>
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<td>Read Audio in Media Ch 5 - Consoles</td>
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<tr>
<td>32 Oct</td>
<td>Wed</td>
<td>Lecture 17 - The Audio Console ctd</td>
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<tr>
<td>33 Oct</td>
<td>Mon</td>
<td>Recording Technology 60s-90s Brian Wilson/Spector</td>
<td>Read AIM pp 113-134</td>
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<tr>
<td>34 Oct</td>
<td>Wed</td>
<td>Watch making of Sgt Peppers</td>
<td>Complete Sgt Peppers Worksheet</td>
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<td>Sgt Peppers DVD</td>
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<tr>
<td>35 Oct</td>
<td>Fri</td>
<td>Demonstrate Lab Project #2</td>
<td></td>
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<tr>
<td>36 Oct</td>
<td>Mon</td>
<td>Lecture 19 - Digital Recording</td>
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<tr>
<td>37 Oct</td>
<td>Wed</td>
<td>Lecture 20 - Digital Audio Formats</td>
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<td>Nov 25-27</td>
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<td>Thanksgiving Break-no class</td>
</tr>
<tr>
<td>38 Nov</td>
<td>Mon</td>
<td><strong>Test #4</strong></td>
<td><strong>OBSERVATION #4 Due</strong></td>
</tr>
<tr>
<td>39 Nov</td>
<td>Wed</td>
<td>Catch up day/Review Test 4</td>
<td></td>
</tr>
<tr>
<td>40 Nov</td>
<td>Fri</td>
<td>Review For Final</td>
<td></td>
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<tr>
<td>41 Nov</td>
<td>Mon</td>
<td>Catch up day</td>
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<td><strong>Final Exam</strong></td>
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<td>Friday, December 11, 2-5 PM (Room B 25)</td>
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<td>Project #2 due, Extra Credit #2 due</td>
</tr>
</tbody>
</table>

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