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## Agenda for the April 28 2016 CAA Meeting

- Items Approved:** 16-63, HST/CMN 4910, Applied Health Communication (Revised Course)  
16-64, FILM 2759G, History of Cinema (Revised Course)  
16-65, CIT 3303, Introduction to Gaming, Animation, and Simulation (New Course)  
16-66, CIT 3313, 3D Modeling for Gaming, Animation, and Simulation (New Course)  
16-67, CIT 4749, Capstone Project in Computer Information Technology (New Course)  
16-68, CIT 4753, Emerging Video Technologies (New Course)  
16-69, CIT 4803, Operating Systems for Computer Technology (New Course)  
16-70, CIT 4813, Front End and Mobile Website Development (New Course)  
16-71, CIT 4823, Big Data and Cloud Computing (New Course)  
16-72, CIT 4833, Cybersecurity Intrusion Detection and Prevention Systems (New Course)  
16-73, Media Technology Minor (New Minor)  
16-74, Computer and Information Technology (New Major)
- Items Pending:** 15-146, CTE 3000G, Consumers in the Marketplace (Revised Course)  
Executive Action: October 19, 2015 memorandum from Dean Izadi, LCBAS, requesting executive action to decouple FCS 3300 and CTE 3000, and delete CTE 3000 from the catalog.  
16-75, ANT 3712, World Archaeology (Revised Course)
- Ongoing:** Multi-year plan regarding the University Learning Goals (For details concerning the plan, see agenda Item 13-83, CAA Learning Goals Committee's Recommendations & Resolution, which was approved by CAA at its 4/25/13 meeting)
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### Council on Academic Affairs Minutes April 28, 2016

The April 28, 2016 meeting of the Council on Academic Affairs was held at 2:04 p.m. in the Room 4440 at Booth Library.

**Members Present:** Dr. Anthony, Mr. Aydt, Dr. Bruehler, Ms. Duffin, Dr. Gronnvoll, Dr. Reid, Dr. Ruholl, Mr. Simpson, Ms. Smith, Dr. Throneburg, and Dr. Wilkinson.

**Members Absent:** Dr. Martinez.

**Staff Present:** Provost Lord, Ms. Fopay.

**Guests Present:** Dr. Austin Cheney, School of Technology; Dr. Rigoberto Chinchilla, School of Technology; Dr. Julie Dietz, Health Studies; Dr. Gabe Grant, School of Technology; Ms. Analicia Haynes, *Daily Eastern News*; Dr. Toqeer Israr, School of Technology; Dr. Stephen King, Communication Studies; Dr. Peter Ping Liu, School of Technology; Interim Associate Dean Mitchell, College of Arts & Humanities; Dr. Robin Murray, English; Dr. Misty Rhoads, Health Studies; Dr. Larry White, School of Business; and Ms. Bonnie Wilson, College of Education & Professional Studies.

#### I. Approval of the April 28, 2016 CAA Meeting Minutes.

Dr. Ruholl moved and Ms. Duffin seconded the motion to approve the minutes. The minutes of April 28, 2016, were approved as written.

#### II. Communications:

##### a. College Curriculum Committee Minutes:

1. Minutes of the April 22, 2016 Lumpkin College of Business & Applied Sciences Curriculum Committee meeting.
2. Minutes of the April 24-25, 2016 Lumpkin College of Business & Applied Sciences Curriculum Committee electronic meeting.

**b. Executive Actions:**

1. April 22, 2016 memorandum from Interim Associate Dean Mitchell, CAH, requesting executive action to remove the Women's Studies cross-listing for the recently approved [PHI/WST 3012](#) course.
2. April 25, 2016 memorandum from Dean Izadi, LCBAS, requesting executive action to revise the course titles for several Military Science courses.
3. April 25, 2016 memorandum from Dean Izadi, LCBAS, requesting executive action to revise the prerequisites for BUS 2810.
4. April 25, 2016 memorandum from Interim Associate Dean Mitchell, CAH, requesting executive action to revise the prerequisite for MUS 4400 through MUS 4463 (Both A and B sections of the Advanced Applied Music courses).

**III. Items Added to the Agenda:**

1. 16-63, HST/CMN 4910, Applied Health Communication (Revised Course)\*
2. 16-64, FILM 2759G, History of Cinema (Revised Course)\*
3. 16-65, CIT 3303, Introduction to Gaming, Animation, and Simulation (New Course)\*
4. 16-66, CIT 3313, 3D Modeling for Gaming, Animation, and Simulation (New Course)\*
5. 16-67, CIT 4749, Capstone Project in Computer Information Technology (New Course)\*
6. 16-68, CIT 4753, Emerging Video Technologies (New Course)\*
7. 16-69, CIT 4803, Operating Systems for Computer Technology (New Course)\*
8. 16-70, CIT 4813, Front End and Mobile Website Development (New Course)\*
9. 16-71, CIT 4823, Big Data and Cloud Computing (New Course)\*
10. 16-72, CIT 4833, Cybersecurity Intrusion Detection and Prevention Systems (New Course)\*
11. 16-73, Media Technology Minor (New Minor)\*
12. 16-74, Computer and Information Technology (New Major)\*
13. 16-75, ANT 3712, World Archaeology (Revised Course)

Ms. Smith moved and Dr. Anthony seconded the motion to add these items to the agenda.

Ms. Duffin moved and Mr. Aydt seconded the motion to suspend the CAA bylaws to act upon items 16-63 through 16-74 at the meeting today.

Note: Agenda Item 16-75 will be carried over to the fall semester per the department chair's request.

**IV. Items Acted Upon:****1. 16-63, HST/CMN 4910, Applied Health Communication (Revised Course).**

Dr. Dietz presented the proposal and answered questions of the council.

Ms. Smith moved and Dr. Anthony seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Fall 2016, *pending CGS approval*.

**HST 4910. Applied Health Communication. (3-0-3) F, S.** An application of health communication principles and competencies focusing on the development and implementation of health campaigns used by health communication professionals. **Cross-listed with CMN 4910.** WI

**CMN 4910. Applied Health Communication. (3-0-3) F, S.** An application of health communication principles and competencies focusing on the development and implementation of health campaigns used by health communication professionals. **Cross-listed with HST 4910.** WI

**2. 16-64, FILM 2759G (Currently FILM 3759G), History of Cinema (Revised Course).**

Dr. Murray presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Mr. Simpson moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Spring 2017.

*Note: As a result of this action:*

- 1.) *FILM 3759G will be renumbered to FILM 2759G.*
- 2.) *FILM 3759G will be deleted from the catalog.*
- 3.) *FILM 2759G will replace FILM 3759G in the Fine Arts segment of General Education.*
- 4.) *FILM 2759G will be given a cultural diversity designation.*

**FILM 2759G. History of Cinema. (3-2-3) On Demand.** The course offers a comprehensive yet selective overview of the history of cinema, integrating the basic tools for analyzing film as art. It will examine how the uses of camera, editing, lighting, sound, and acting contribute to the construction of meaning for audiences, as well as consider how meaning is filtered through various cultural and historical contexts. Equivalent Course: FILM 3759G. Grade and credit hours for this course will be removed if student already has credit for or is registered in FILM 3759G. WI

**3. 16-65, CIT 3303, Introduction to Gaming, Animation, and Simulation (New Course).**

Dr. Grant presented the proposal and answered questions of the council.

Ms. Smith moved and Ms. Duffin seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Spring 2017.

**CIT 3303. Introduction to Gaming, Animation, and Simulation. (1-4-3) On Demand.** An introduction to the tools and processes used in gaming, animation, and simulation. Emphasis will be on planning, development, and deployment of 2-D projects for desktop and mobile devices.

**4. 16-66, CIT 3313, 3D Modeling for Gaming, Animation, and Simulation (New Course).**

Dr. Grant presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Mr. Simpson moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Spring 2017.

**CIT 3313. 3D Modeling for Gaming, Animation, and Simulation. (1-4-3) On Demand. 3D Modeling for Gaming.** A study of the tools, techniques and processes used in gaming, animation, and simulation modeling. Emphasis will be on planning, development, and deployment of 3D models for desktop and mobile devices.

**5. 16-67, CIT 4749, Capstone Project in Computer Information Technology (New Course).**

Dr. Liu presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Smith moved and Mr. Simpson seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Fall 2018.

**CIT 4749. Capstone Project in Computer and Information Technology. (1-4-3) On Demand. Capstone Project.** Comprehensive applications of the knowledge and skills learned in a student's degree program. Focus on the integration and synthesis of content through critical thinking and professional practice. Note: This course is restricted to seniors in Computer Information Technology. A limit of 3 hours may be applied to a major or minor.

6. **16-68, CIT 4753, Emerging Video Technologies (New Course).**

Dr. Grant presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Dr. Anthony moved and Mr. Simpson seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Spring 2017, *pending CGS approval*.

**CIT 4753. Emerging Video Technologies. (2-2-3) On Demand.** A study of video technologies and techniques. This course will focus on the capture of video for creating applications and solutions for web sites, education, training, and advertising solutions. Main emphasis will be on hardware, specialty equipment, and media preparation for these applications. A limit of 3 hours may be applied to a major or minor. Prerequisites: A grade of "C" or better in AET 2123, graduate standing or permission of instructor.

7. **16-69, CIT 4803, Operating Systems for Computer Technology (New Course).**

Dr. Chinchilla presented the proposal and answered questions of the council.

Ms. Duffin moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Fall 2017, *pending CGS approval*.

**CIT 4803. Operating Systems for Computer Technology. (2-2-3) On Demand. Operating Systems.** An introduction to technological applications of modern operating systems: Design concepts, data structures, algorithms and systems (shell) programming basics. Emphasis will be on UNIX, LINUX and WINDOWS based operating systems. This course is restricted to undergraduate students completing 75 hours of coursework in a CIT, AET, or MIS major; or to graduate students. Prerequisite: A grade of "C" or better in AET 3163.

8. **16-70, CIT 4813, Front End and Mobile Website Development (New Course).**

Dr. Grant presented the proposal and answered questions of the council. Also, he distributed copies of [amendments to the proposal](#) which were requested by individuals in the MIS Department prior to today's meeting. The updates shown in the amendments will be made to the rationale (Part I, #2) on the proposal and the justification for similarity to other courses (Part 1, #3). In addition to those amendments, the council members requested other revisions to the proposal.

Mr. Simpson moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Fall 2017, *pending CGS approval*.

**CIT 4813. Front End and Mobile Website Development. (2-2-3) On Demand. Front End Website Development.** A study of front end and mobile website development. Emphasis will be on planning, designing, development, testing, and publishing of websites specifically for internet connected devices. Note: This course will have a supplemental cost of \$50-\$75 for web hosting and domain name registration.

9. **16-71, CIT 4823, Big Data and Cloud Computing (New Course).**

Dr. Israr presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Duffin moved and Dr. Anthony seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Fall 2017, *pending CGS approval*.

**CIT 4823. Big Data and Cloud Computing. (2-2-3) On Demand. Big Data.** Introduction to concept and technology of big data and predictive analytics, including capture, transfer, storage, query, exploration, visualization and other relevant applications of large data-sets. This course is restricted to undergraduate students completing 75 hours of coursework in the CIT major or to graduate students of TEC. Prerequisite: A grade of "C" or better in AET 3163 or its equivalent.

**10. 16-72, CIT 4833, Cybersecurity Intrusion Detection and Prevention Systems (New Course).**

Dr. Chinchilla presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Mr. Simpson moved and Dr. Ruholl seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, was approved, effective Spring 2017, *pending CGS approval*.

**CIT 4833. Cybersecurity Intrusion Detection and Prevention Systems. (2-2-3) On Demand.** A study of principles and applications of Cybersecurity Intrusion Prevention Systems (IPS) and Intrusion Detection Systems (IDS). This course is restricted to undergraduate students completing 75 hours of coursework in a CIT, AET, or MIS major; or to graduate students. This course may not be repeated with credit. A limit of 3 hours may be applied to a major or minor. Prerequisite: A grade of "C" or better in AET 2523.

**11. 16-73, Media Technology Minor (New Minor).**

Dr. Grant presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Mr. Simpson moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revisions, (**See Attachment A**) was approved, effective Fall 2016.

**12. 16-74, Computer and Information Technology (New Major).**

Dr. Liu presented the proposal and answered questions of the council.

Mr. Simpson moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Fall 2017, *pending BOT and IBHE approval*.

**V. Committee Reports:**

None.

**VI. Other Business:**

1. Election of the 2016-17 CAA Officers.

**Fall 2016**

**Chair:** Dr. Marita Gronnvoll was selected the Fall 2016 CAA Chair by acclamation.

**Vice Chair:** Dr. Stacey Ruholl was selected the Fall 2016 CAA Vice Chair by acclamation.

**Spring 2017**

**Chair:** Dr. Stacey Ruholl was selected the Spring 2017 CAA Chair by acclamation.

**Vice Chair:** Dr. Richard Wilkinson was selected the Spring 2017 CAA Vice Chair by acclamation.

2. Ms. Smith thanked the group for her opportunity to be a student member of the council.
3. Provost Lord distributed certificates of appreciation to Dr. Gronnvoll and Dr. Ruholl and thanked them for their work for the council.

**VII. Pending:**

1. 15-146, CTE 3000G, Consumers in the Marketplace (Revised Course)
2. Executive Action: October 19, 2015 memorandum from Dean Izadi, LCBAS, requesting executive action to decouple FCS 3300 and CTE 3000, and delete CTE 3000 from the catalog.

**VIII. Ongoing:**

1. Multi-year plan regarding the University Learning Goals (For details concerning the plan, see agenda Item 13-83, CAA Learning Goals Committee's Recommendations & Resolution, which was approved by CAA at its 4/25/13 meeting.)

**IV. Meeting Adjournment:**

1. Ms. Duffin moved and Ms. Smith seconded the motion to adjourn the meeting. The motion was approved by acclamation.

The meeting adjourned 2:55 p.m.

The next meeting – to be announced.

*–Minutes prepared by Ms. Janet Fopay, Recording Secretary*

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The current agenda and all CAA council minutes are available on the Web at <http://www.eiu.edu/~eiucaa/>. In addition, an electronic course library is available at <http://www.eiu.edu/~eiucaa/elibrary/>.

\*\*\*\*\* ANNOUNCEMENT OF NEXT MEETING \*\*\*\*\*  
**TO BE ANNOUNCED**

**Agenda:**

Pending:

1. 15-146, CTE 3000G, Consumers in the Marketplace (Revised Course)
2. Executive Action: October 19, 2015 memorandum from Dean Izadi, LCBAS, requesting executive action to decouple FCS 3300 and CTE 3000, and delete CTE 3000 from the catalog.
3. 16-75, ANT 3712, World Archaeology (Revised Course)

**Approved Executive Actions:**

**COS  
Effective Fall 2016**

1. Revise the admission criteria for the RN to BS in Nursing Program.

**Nursing (B.S.)**

**Criteria for Admission to the Major:**

1. Unconditional admission to the University
2. Complete Application for the RN to BS in Nursing Program
3. Achievement of a cumulative GPA of 2.5 or higher
4. RN license from state of residence
5. Current CPR certification for the professional provider
6. Documentation of health requirements
7. Two professional references
8. Professional statement
9. Professional Liability Insurance

10. Certified Background Check
11. Completion of the following courses or their equivalents with a grade of 'C' or better:
- BIO 2001G - Human Physiology. Credits: 4  
and BIO 2220 - Anatomy and Physiology II. Credits: 4  
or
  - BIO 2210 - Anatomy and Physiology I. Credits: 4  
and BIO 2220 - Anatomy and Physiology II. Credits: 4
  - ENG 1001G - College Composition I: Critical Reading & Source-Based Writing. Credits: 3
  - ENG 1002G - College Composition II: Argument & Critical Inquiry. Credits: 3
  - FCS 1800 - Lifespan Human Development. Credits: 3
  - PSY 1879G - Introductory Psychology. Credits: 3
  - SOC 1838G - Introductory Sociology. Credits: 3
- AND**
- CHM 1040G - The World of Chemistry. Credits: 4
- OR**
- CHM 3025G - The Chemistry in Your Life. Credits: 3
- OR**
- CHM 1310G - General Chemistry I. Credits: 3  
AND
  - CHM 1315G - General Chemistry Laboratory I. Credits: 1
- OR**
- PHY 1051G -Physics of the Modern World. (3-0-3)
- OR**
- PHY 1052G -Adventures in Physics (3-0-3)  
AND
  - PHY 1053G -Adventures in Physics Laboratory. (0-2-1)
- OR**
- PHY 1151G -Principles of Physics I. (3-0-3)  
AND
  - PHY 1152G -Principles of Physics I Laboratory. (0-2-1)

**Pending Executive Actions:**

**BAS**

**Effective Fall 2016**

1. Revise the prerequisites for BUS 2810.

**BUS 2810 - Business Statistics I. (3-0-3) F, S.** A study of statistical analysis with business applications, including descriptive statistics, probability, interval estimation, hypothesis tests of means and proportions, simple correlation, chi square, one-way analysis of variation and linear regression. Includes use of spreadsheet software. **BUS 1950 is the required prerequisite for non-AET majors. BUS 901** Prerequisites & Notes: BUS 1950 with C or better, **or AET major with AET 1323**, or permission of the Associate Chair, School of Business. Credits: 3

2. Change the course title for MSC 1001.

**MSC 1001 - Leadership and Personal Development. Introduction to the Army. (1-1-1) F, S.** Make your first new peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill; physical fitness; rappelling; leadership reaction course; first aid; basic marksmanship; Army rank structure; stress management; and nutrition. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. (KSS 1000A or 1000B or 1000D or 1000E) and a weekend exercise are highly encouraged and required for ROTC Scholarship students. Credits: 1

3. Update the course title for MSC 1002.

**MSC 1002 - ~~Introduction to Leadership~~. Foundations of Agile and Adaptive Leadership. (1-1-1) F, S.** Learn/apply principles of effective leadership. Reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. PED 1000 and a weekend exercise are encouraged for all and mandatory for students with ROTC scholarships. Prerequisites & Notes: MSC 1001 or permission of the Department Chair. Credits: 1

4. Amend the course title for MSC 2001.

**MSC 2001 - ~~Foundations of Leadership I~~. Leadership and Decision Making. (2-1-2) F, S.** Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning of events, coordination of group efforts, ethical decision making, land navigation, and basic military tactics. Learn fundamentals of ROTC's Leadership Development Program. PED 1000 and a weekend exercise are highly encouraged and required for ROTC Scholarship students. Prerequisites & Notes: MSC 1002 or permission of the Department Chair. Credits: 2

5. Change the course title for MSC 2002.

**MSC 2002 - ~~Foundations of Leadership II~~. Army Doctrine and Team Development. (2-1-2). F, S.** Introduction to individual and team aspects of military tactics in small unit operations. Includes fundamentals of officership, making safety assessments, movement techniques, planning for team safety/security, and methods of pre-execution checks. Practical exercises with upper division ROTC students. Learn techniques for training others as an aspect of continued leadership development. PED 1000 and a weekend exercise are encouraged for all and required for students with ROTC Scholarships. Prerequisites & Notes: MSC 2001 or permission of the Department Chair. Credits: 2

6. Revise the course title for MSC 3001.

**MSC 3001 - ~~Tactical Leadership~~. Training Management and the Warfighting Functions. (2-2-3) F.** Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead again in situations of increasing complexity. Uses small unit defensive tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leadership. Participation in four one-hour sessions of physical fitness training per week and one weekend field training exercise required. Prerequisites & Notes: MSC 2003, or MSC 2002, or prior military service, or permission of the Department Chair. Credits: 3

7. Update the course title for MSC 3002.

**MSC 3002 - ~~Applied Leadership~~. Applied Leadership in Small Unit Operations. (3-2-4) S.** Continues methodology of MSC 3001. Analyze tasks; prepare written and oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance. Four one-hour physical fitness training sessions per week and one weekend field training exercise required. Prerequisites & Notes: MSC 3001 or permission of the Department Chair. Credits: 4



8. Revise the course title for MSC 4001.

**MSC 4001 - ~~Developmental Leadership~~. The Army Officer. (2-2-3) F.** Study and application of basic administrative and logistical systems. Study and application of military correspondence and briefing techniques. Introduction to the fundamental concepts of military justice. Study of basic principles and procedures of courts-martial and non-judicial punishment. Three one-hour physical fitness training sessions per week and one weekend field training exercise required. Prerequisites & Notes: MSC 3003 or permission of the Department Chair. Credits: 3

9. Change the course title for MSC 4002.

**MSC 4002 - ~~Adaptive Leadership~~. Company Grade Leadership. (2-2-3) S.** Continues the methodology from MSC 4001. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as related to leading as an officer in the Army. Prepare for a future as a successful army lieutenant. Three one-hour physical fitness training sessions per week and one weekend field training exercise required. Prerequisites & Notes: MSC 4001 or permission of the Department Chair. Credits: 3

#### CAH

##### Effective Fall 2016

1. Remove the cross-listing of PHI 3012 with WST 3012. Note: With this action WST 3012 will be completely removed from the catalog.

**PHI 3012 - Philosophy of Sex and Love. (3-0-3) On Demand.** This course examines the meaning and nature of sex and love. The goal is to help students reflect on how to live out their own sexuality while gaining empathy for other views. We will examine contemporary debates concerning the nature of romantic love, sexual fantasies, casual sex, consent theory, the purpose(s) of sex, what it means to "use" someone, masturbation, objectification, sadomasochism, pornography, homosexuality, marriage, and many other topics. ~~Cross-listed with WST 3012.~~ WI Credits: 3

~~**WST 3012 - Philosophy of Sex and Love. (3-0-3) On Demand.** This course examines the meaning and nature of sex and love. The goal is to help students reflect on how to live out their own sexuality while gaining empathy for other views. We will examine contemporary debates concerning the nature of romantic love, sexual fantasies, casual sex, consent theory, the purpose(s) of sex, what it means to "use" someone, masturbation, objectification, sadomasochism, pornography, homosexuality, marriage, and many other topics. Cross-listed with PHI 3012. WI Credits: 3~~

#### CAH

##### Effective Spring 2017

1. Amend the prerequisites for MUS 4410A.

**MUS 4410A - Advanced Voice III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

2. Revise the prerequisites for MUS 4410B.

**MUS 4410B - Advanced Voice IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

3. Update the prerequisites for MUS 4420A.

**MUS 4420A - Advanced Flute III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

4. Change the prerequisites for MUS 4420B.

**MUS 4420B - Advanced Flute IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

5. Revise the prerequisites for MUS 4421A.

**MUS 4421A - Advanced Oboe III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

6. Modify the prerequisites for MUS 4421B.

**MUS 4421B - Advanced Oboe IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

7. Update the prerequisites for MUS 4422A.

**MUS 4422A - Advanced Clarinet III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

8. Change the prerequisites for MUS 4422B.

**MUS 4422B - Advanced Clarinet IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

9. Revise the prerequisites for MUS 4423A.

**MUS 4423A - Advanced Bassoon III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

10. Amend the prerequisites for MUS 4423B.

**MUS 4423B - Advanced Bassoon IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

11. Change the prerequisites for MUS 4424A.

**MUS 4424A - Advanced Saxophone III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

12. Modify the prerequisites for MUS 4424B.

**MUS 4424B - Advanced Saxophone IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

13. Revise the prerequisites for MUS 4430A.

**MUS 4430A - Advanced Trumpet III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

14. Update the prerequisites for MUS 4430B.

**MUS 4430B - Advanced Trumpet IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

15. Change the prerequisites for MUS 4431A.

**MUS 4431A - Advanced Horn III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

16. Revise the prerequisites for MUS 4431B

**MUS 4431B - Advanced Horn IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

17. Amend the prerequisites for MUS 4432A.

**MUS 4432A - Advanced Trombone III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

18. Update the prerequisites for MUS 4432AB.

**MUS 4432B - Advanced Trombone IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

19. Adjust the prerequisites for MUS 4433A.

**MUS 4433A - Advanced Euphonium III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

20. Revise the prerequisites for MUS 4433B.

**MUS 4433B - Advanced Euphonium IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

21. Change the prerequisites for MUS 4434A.

**MUS 4434A - Advanced Tuba III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

22. Update the prerequisites for MUS 4434B.

**MUS 4434B - Advanced Tuba IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

23. Revise the prerequisites for MUS 4440A.

**MUS 4440A - Advanced Percussion III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

24. Modify the prerequisites for MUS 4440B.

**MUS 4440B - Advanced Percussion IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

25. Adjust the prerequisites for MUS 4450A.

**MUS 4450A - Advanced Violin III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

26. Change the prerequisites for MUS 4450B.

**MUS 4450B - Advanced Violin IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

27. Revise the prerequisites for MUS 4451A.

**MUS 4451A - Advanced Viola III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

28. Modify the prerequisites for MUS 4451B.

**MUS 4451B - Advanced Viola IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

29. Amend the prerequisites for MUS 4452A.

**MUS 4452A - Advanced Violincello III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

30. Revise the prerequisites for MUS 4452B.

**MUS 4452B - Advanced Violincello IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

31. Update the prerequisites for MUS 4453A.

**MUS 4453A - Advanced Double Bass III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

32. Modify the prerequisites for MUS 4453B.

**MUS 4453B - Advanced Double Bass IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

33. Revise the prerequisites for MUS 4454A.

**MUS 4454A - Advanced Guitar III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

34. Amend the prerequisites for MUS 4454B.

**MUS 4454B - Advanced Guitar IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

35. Adjust the prerequisites for MUS 4460A.

**MUS 4460A - Advanced Piano III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

36. Update the prerequisites for MUS 4460B.

**MUS 4460B - Advanced Piano IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

37. Modify the prerequisites for MUS 4461A.

**MUS 4461A - Advanced Organ III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ ~~Achievement of Junior Standing.~~ **MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

38. Change the prerequisites for MUS 4461B.

**MUS 4461B - Advanced Organ IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ **Achievement of Junior Standing. MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

39. Revise the prerequisites for MUS 4463A.

**MUS 4463A - Advanced Jazz III. (Arr.-Arr.-1, -2, or -4) F, S.** Level three advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ **Achievement of Junior Standing. MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

40. Amend the prerequisites for MUS 4463B.

**MUS 4463B - Advanced Jazz IV. (Arr.-Arr.-1, -2, or -4) F, S.** Level four advanced study in music performance on a one-to-one basis with a studio instructor. Open to music majors only. May be repeated once for credit. Prerequisites & Notes: ~~MUS 2542, MUS 2544, and MUS 1110-1163.~~ **Achievement of Junior Standing. MUS 2502 and completion of either MUS 3100, 3101, or 3102.** Credits: 1, 2 or 4

**Pending Executive Actions:**

**NOTE: The following changes are contingent upon the approval of the CTE 3000G course proposal (agenda item 15-146) which is currently pending.**

**BAS**

**Effective Fall 2016**

1. Delete CTE 3000 from the catalog.

~~**CTE 3000 – Consumers in the Marketplace. (3-0-3) F, S.** Factors affecting personal and family financial management, including investments and savings, use of credit, insurance and taxes. Credit will not be granted for both CTE 3000 and FCS 3300. Credits: 3~~

2. Decouple FCS 3300 and CTE 3000.

**FCS 3300 - Personal and Family Finance. (3-0-3) F, S.** A study of factors affecting the buymanship of food, clothing, housing, transportation, credit, and insurance. **Credit not granted for both FCS 3300 and CTE 3000.** Credits: 3

**Attachment A****Media Technology Minor**

(Minimum of 18 hours)

The minor in Media Technology provides students with opportunities to learn about the processes involved in the development and publishing of web, cross media, gaming, animation, simulation and other multimedia.

**Core Courses (6 hours)**

- AET 1363- Introduction to Graphics Technology. Credits: 3
- AET 4333- Trends in Web Development and Graphics. Credits: 3

**Elective Courses (minimum of 12 hours)**

- AET 2123- Digital Photography. Credits: 3
- AET 3343- Cross Media Technologies. Credits: 3
- AET 4123- Advanced Digital Photography. Credits: 3
- AET 4353- Multimedia Production Management. Credits: 3
- AET 4813- Advanced Cross Media Technologies. Credits: 3
- AET 4863- Packaging Design Technologies. Credits: 3
- AET 4865- e-Books and e-Publishing Technologies. Credits: 3
- AET 4953- Color Management Technologies. Credits: 3
- CIT 3303- Introduction to Gaming, Animation and Simulation. Credits: 3
- CIT 3313- 3D Modeling for Gaming, Animation and Simulation. Credits: 3
- CIT 4753- Emerging Video Technologies. Credits: 3
- CIT 4813- Front End and Mobile Website Development. Credits: 3



**Attachment B****Computer and Information Technology (B.S.)**

**Vision:** To prepare technical professionals for applications of computer and information technology.

**Mission:** To enable students to become highly marketable as technical professionals for applications of computer and information technology, the program will engage them in the following studies:

1. Hardware and physical systems;
2. Software and programming;
3. Network and telecommunication technology;
4. Data and database technology;
5. Web and mobile technology;
6. Media technology;
7. Security technology;
8. Applications of computer and information technology such as digital media, graphics, control, design, gaming, animation technology, rapid prototyping etc.;
9. Professional and organizational excellence.

**A. Credit Hour Distribution in Reference to Guidelines by Association of Technology, Management and Applied Engineering (ATMAE):**

	<b>ATMAE Standard</b>	<b>CIT Program</b>
General Education	18-36 hours	33 hours
Mathematics	6-18 hours	6-7 hours
Physical Sciences	6-18 hours	8 hours
Management	12-24 hours	16 hours
Technical	24-36 hours	36 hours
Electives	0-18 hours	21 hours
<b>Total</b>	<b>120 hours minimum</b>	<b>120-121 hours</b>

**B. General Education (33 hours):**

A total of 33 hours of general education courses is required by the university.

**C. Mathematics: (6-7 hours):**

1. MAT 2120G Finite Mathematics (3-0-3);

Prerequisites & Notes:

MAT 1271 with a C or better, or satisfactory placement by department guidelines

And

2. BUS 2810 Business Statistics I (3-0-3);

Prerequisites & Notes:

Sophomore standing.

Or

- MAT 2250G Elementary Statistics (4-0-4);

Prerequisites & Notes:

MAT 1271; or satisfactory placement by department guidelines.

**D. Physical Sciences (8 hours):**

1. PHY 1151G Principles of Physics I (3-0-3)
2. PHY 1152G Principles of Physics I Laboratory (0-2-1)
3. PHY 1161 Principles of Physics II (3-0-3)
4. PHY 1162 Principles of Physics II Laboratory (0-2-1)

**E. Required Technical Courses (36 hours):**

<b>Knowledge or Skill Set</b>	<b>CIT Major</b>	<b>CIT Major/MIS Minor</b>	<b>CIT Major/Media Technology Minor</b>
1. Computer Fundamentals (3 hours)	AET 1323 Computers for Applied Engineering and Technology;	BUS 1950 Computer Concepts and Applications for Business; *	AET 1323 Computers for Applied Engineering and Technology;
2. Language (3 hours)	AET 3163 Computer Programming in Technology (C++);	MIS 2000 Introduction to Business Logic and Programming Skills;*	AET 3163 Computer Programming in Technology (C++);
3. Operating Systems (3 hours)	CIT 4803 Operating System;	CIT 4803 Operating System;	CIT 4803 Operating System;
4. Physical systems (3 hours)	AET 2324 Electrical Control Systems;	AET 2324 Electrical Control Systems;	AET 2324 Electrical Control Systems;
5. Networking and Telecommunication (3 hours)	AET 2523 Routing and Switching Fundamentals;	MIS 3200 Networking Fundamentals (Prerequisite: BUS 1950);*	AET 2523 Routing and Switching Fundamentals;
6. Database (3 hours)	AET 4163 Computer Database in Technology;	MIS 4200 Systems and Database Analysis, Design, and Development (Prerequisite: MIS 2000; BUS 3500);*	AET 4163 Computer Database in Technology;
7. Media (3 hours)	AET 4813 Advanced Digital Media; **	AET 4813 Advanced Digital Media; **	AET 4813 Advanced Digital Media; **
8. Web Technology (3 hours)	CIT 4813 Front End and Mobile Website Development;**	MIS 3530 Business Web Site Design (Prerequisite: BUS 1950); *	CIT 4813 Front End and Mobile Website Development;**
9. Big Data (3 hours)	CIT 4823 Big Data and Cloud Computing;	OSC 4820 Business Analytics and Data Mining (Prerequisite: A grade of "C" or better in BUS 2810 Business Statistics I);*	CIT 4823 Big Data and Cloud Computing;

10. Security (3 hours)	CIT 4833 Intrusion Detection and Prevention;	MIS 4850 Systems Security (Prerequisite: BUS 3500 Management Information Systems--Prerequisite: BUS 1950 Computer Concepts and Applications for Business);*  Or MIS 4860 Ethical Hacking and Network Defense; (Prerequisite: BUS 3500 Management Information Systems--Prerequisite: BUS 1950 Computer Concepts and Applications for Business);*	CIT 4833 Intrusion Detection and Prevention;
11. Applications (3 hours)	AET 3073 Programmable Logic Controllers;  Or AET 3103 Robots and Control Systems;  Or AET 3203 Computer Numerical Control Programming;	AET 3073 Programmable Logic Controllers;  Or AET 3103 Robots and Control Systems;  Or AET 3203 Computer Numerical Control Programming;	AET 3073 Programmable Logic Controllers;  Or AET 3103 Robots and Control Systems;  Or AET 3203 Computer Numerical Control Programming;
12. Capstone (3 hours)	CIT 4953 Capstone Project (3 hours, graduation requirement)	CIT 4953 Capstone Project (3 hours, graduation requirement)	CIT 4953 Capstone Project (3 hours, graduation requirement)

**F. Required Management Courses (16 hours):**

<b>Knowledge or Skill Set</b>	<b>CIT Major</b>	<b>CIT Major/MIS Minor</b>	<b>CIT Major/Media Technology Minor</b>
1. Economic principles (3 hours)	ECN 2800G - Economics of Social Issues;  Or ECN 2801G - Principles of Macroeconomics;	ECN 2800G - Economics of Social Issues;  Or ECN 2801G - Principles of Macroeconomics;	ECN 2800G - Economics of Social Issues;  Or ECN 2801G - Principles of Macroeconomics;
2. Project management (4 hours)	AET 3414 Selection and Management of Applied Engineering Projects;	AET 3414 Selection and Management of Applied Engineering Projects;	AET 3414 Selection and Management of Applied Engineering Projects;

<p>3. Organizational behavior (3 hours)</p>	<p>OPD 4835 Supervision in Organizations;  Or OPD 4820 Change in Organizations;</p>	<p>OPD 4835 Supervision in Organizations;  Or OPD 4820 Change in Organizations;</p>	<p>OPD 4835 Supervision in Organizations;  Or OPD 4820 Change in Organizations;</p>
<p>4. Ethics, diversity, teamwork, and training (6 hours)</p>	<p>OPD 4825 Ethical Behavior in Organizations;  OPD 4865 Diversity in Organizations;  OPD 4870 Coaching and Mentoring for Critical Thinking in the Workplace;  OPD 4880 Productive Work Teams;</p>	<p>BUS 3500 Management Information Systems;*  OPD 4825 Ethical Behavior in Organizations;  OPD 4865 Diversity in Organizations;  OPD 4870 Coaching and Mentoring for Critical Thinking in the Workplace;  OPD 4880 Productive Work Teams;</p>	<p>OPD 4825 Ethical Behavior in Organizations;  OPD 4865 Diversity in Organizations;  OPD 4870 Coaching and Mentoring for Critical Thinking in the Workplace;  OPD 4880 Productive Work Teams;</p>

**G. Electives (21-22 hours):**

CIT Major	CIT Major/MIS Minor	CIT Major/Media Technology Minor
<p>AET 3153 Advanced Routing and Switching;</p>	<p>MIS 3330 Java Programming (Prerequisite: MIS 2000);*</p>	<p>AET 1363 Graphic Communication Technologies;**</p>
<p>AET 3103 Robots and Control Systems;</p>	<p>MIS 4530 Web &amp; Mobile Application Development (Pre-requisite: A grade of "C" or better in MIS 2000 and MIS 3530);*</p>	<p>AET 2123 Digital Photography and Imaging;**</p>
<p>AET 3203 Computer Numerical Control Programming;</p>	<p>AET 3343 Digital Media Technologies; **</p>	<p>AET 3343 Digital Media Technologies; **</p>
<p>AET 1363 Graphic Communication Technologies;**</p>	<p>AET 4123 Advanced Digital Photography;**</p>	<p>AET 4123 Advanced Digital Photography;**</p>
<p>AET 2123 Digital Photography and Imaging;**</p>	<p>AET 4353- Multimedia Production Management;**</p>	<p>AET 4353- Multimedia Production Management;**</p>
<p>AET 3343 Digital Media Technologies; **</p>	<p>AET 4813- Advanced Cross Media Technologies;**</p>	<p>AET 4813- Advanced Cross Media Technologies;**</p>
<p>AET 4123 Advanced Digital Photography;**</p>	<p>AET 3103 Robots and Control Systems;</p>	<p>AET 4865- e-Books and e-Publishing Technologies; **</p>
<p>AET 4353- Multimedia Production Management;**</p>	<p>AET 3203 Computer Numerical Control Programming;</p>	<p>AET 4863 Packaging Technologies;**</p>
<p>AET 4813- Advanced Cross Media Technologies;**</p>		<p>AET 4953 Color Management Technologies;**</p>

<p>AET 4865- e-Books and e-Publishing Technologies; **</p> <p>AET 4863 Packaging Technologies;**</p> <p>AET 4953 Color Management Technologies;**</p> <p>AET 4333 Trends in Digital Media Technology;**</p> <p>AET 3063 3 D Modeling</p> <p>AET 4970 Special Topics in Technology;</p> <p>AET 3920 Independent Study;</p> <p>AET 4275 Industrial Internship;</p> <p>CIT 3303- Introduction to Gaming, Animation and Simulation; **</p> <p>CIT 3313- 3D Modeling for Gaming, Animation and Simulation; **</p> <p>CIT 4753- Emerging Video Technologies; **</p>		<p>AET 4333 Trends in Digital Media Technology;**</p> <p>AET 3063 3 D Modeling</p> <p>AET 4970 Special Topics in Technology;</p> <p>AET 3920 Independent Study;</p> <p>AET 4275 Industrial Internship; CIT 3303- Introduction to Gaming, Animation and Simulation; **</p> <p>CIT 3313- 3D Modeling for Gaming, Animation and Simulation; **</p> <p>CIT 4753- Emerging Video Technologies; **</p>
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