# COURSE \& CURRICULUM COMMITTEE <br> Meeting Minutes <br> October 19, 2018 

Present: D. Bertch, D. Coates, B. deDie, P. Eagan, C. Gibson, P. Henning, S. Gardner, A. Nord, K. Sparrow, H. Stevens, G. Fredericks, S. Myers, B. Reynolds<br>Absent: D. Coblentz, S. Hubbell, R. Kraas, T. Sypris<br>Guests: D. Benard, B. Hay, M. Myers, B. Purdy

1. Call to Order - The meeting was called to order at 1:00 p.m.
2. Meeting Minutes of May 11, 2018 - The minutes of May 11, 2018 were approved as distributed.
3. Review/Revise/Approve Agenda - The agenda was approved as distributed.
4. Announcements/Updates - None presented.
5. Business
5.1 Course Inactivations (Effective 202010)
5.1.1 BREW 150, Yeast Ferment \& Microbiology, 4-3-3 (Lecture/Standard Lab) - B. Hay discussed the recommendation to inactivate BREW 150, Yeast Ferment \& Microbiology, 4-3-3
(Lecture/Standard Lab) and add two new courses, BREW 151, Biochemistry of Brewing and BREW 152, Microbiology of Brewing, in its place (see 5.3.3 and 5.3.4). This course inactivation has been endorsed by the BREW faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to inactivate BREW 150, Yeast Ferment \& Microbiology, 4-3-3 (Lecture/Standard Lab).
5.1.2 DHY 291, Dental Hygiene Clinical Review, 1-0-0 (Independent Study) - P. Henning discussed the recommendation to inactivate DHY 291, Dental Hygiene Clinical Review, 1-0-0 (Independent Study) reporting this course has not been offered in many years and has been replaced with a board certification course in the new curriculum (DHY 264, Board Exam Prep). This course inactivation has been endorsed by the DHY faculty and advisory committee. After discussion it was MOVED, SECONDED and CARRIED to inactivate DHY 291, Dental Hygiene Clinical Review, 1-0-0 (Independent Study).
5.1.3 EMT 201, Prehospital Emergency Med I, 5-4-2 (Lecture/Standard Lab)
5.1.4 EMT 211, Prehospital Emergency Pharm, 5-4-2 (Lecture/Standard Lab)
5.1.5 EMT 215, Introductory EMS Clinical, 2-0-6 (Lecture/Open Lab/Clinic)
5.1.6 EMT 221, Medical Emergencies, 4-3-2 (Lecture/Standard Lab)
5.1.7 EMT 225, Medical Emergencies Clinical, 2-0-6 (Clinic)
5.1.8 EMT 231, Trauma \& Disaster Medicine, 5-4-2 (Lecture/Standard Lab)
5.1.9 EMT 235, Trauma Rotation, 2-0-6 (Clinic)
5.1.10 EMT 241, Cardiovascular Emergencies, 5-4-2 (Lecture/Standard Lab)
5.1.11 EMT 245, Cardiac Clinical Rotation, 2.5-0-7.5 (Clinic)
5.1.12 EMT 251, Prehospital Emergency Med II, 4-3-2 (Lecture/Standard Lab)
5.1.13 EMT 255, Specialized Care Rotation, 1.5-0-4.5 (Clinic)

Items 5.1.3-5.1.13 - D. Benard discussed the recommendation to inactivate the above courses reporting these courses are part of a certificate program that will be inactivated after summer 2019. A restructured program with new courses (AAS only) will start in fall 2019. These course inactivations have been endorsed by the EMT faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the EMT course inactivations as recommended and presented.
5.1.14 ESL 090, ESL - Listening Practice I, 3-3-0 (Lecture/Discussion)
5.1.15 ESL 091, ESL - Grammar and Writing I, 3-3-0 (Lecture/Discussion)
5.1.16 ESL 093, ESL - Reading I, 3-3-0 (Lecture/Discussion)
5.1.17 ESL 101, ESL - Grammar and Writing II, 3-3-0 (Composition)
5.1.18 ESL 103, ESL - Reading II, 3-3-0 (Lecture/Discussion)

Items 5.1.14-5.1.18 - B. Reynolds discussed the recommendation to inactivate the ESL courses listed above reporting these courses have not been offered in many years. These course inactivations have been endorsed by the ENG faculty. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendations as presented.
5.1.19 HCR 119, Medical Language, 2-2-0 (Lecture/Discussion) - P. Henning discussed the recommendation to inactivate HCR 119, Medical Language, 2-2-0 (Lecture/Discussion) reporting this course has not been offered in many years and is not part of any program of study. This course inactivation has been endorsed by the HCR faculty. After discussion it was MOVED, SECONDED, and CARRIED to inactivate HCR 119, Medical Language, 2-2-0 (Lecture/Discussion).
5.1.20 HUM 291, World Mythology, 1-1-0 to 3-1-0 (Independent Study) (Online) - Replaced with HUM 205
5.1.21 PSY 102, Principles of Peer Support, 3-3-0 (Lecture/Discussion)
5.1.22 THR 101, Theatre Appreciation, 3-3-0 (Lecture/Discussion)
5.1.23 THR 111, Fundamentals of Acting 1, 3-3-0 (Lecture/Discussion)
5.1.24 THR 112, Intermed/Adv Acting Techniques, 3-3-0 (Lecture/Discussion)
5.1.25 THR 160, Intro to Technical Theatre I, 3-1-6 (Lecture/Standard Lab)
5.1.26 THR 161, Intro to Technical Theatre II, 3-1-6 (Lecture/Standard Lab)
5.1.27 THR 211, Directing I, 3-3-0 (Lecture/Discussion)
5.1.28 THR 278, Theatre Internship, 1-0-0 to 9-0-0 (Internship)
5.1.29 TRS 101, Transitions: Explore and Discover, 3-3-0 (Lecture/Discussion) - Course content is offered in TRS 104

Items 5.1.20-5.1.29 - B. Reynolds discussed the recommendation to inactivate the courses listed above stating these courses have not been offered in many years. These course inactivations have been endorsed by faculty in each active discipline. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendations as presented.
5.2 Course Revisions (Effective 202010)
5.2.1 ANM 131, Intro to 3D Animation, 3-2-3 (Lecture/Standard Lab) - Change title to 3D Animation I - B. Purdy discussed the recommendation to change the title of ANM 131 to 3D Animation reporting course content was changed to better fit the Animation curriculum. This course revision was endorsed by the ANM faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendation as presented.
5.2.2 DHY 241, Dental Materials, 2-1-3 (Lecture/Standard Lab) - Change title to Dental Materials \& Specialties - P. Henning discussed the recommendation to change the title of DHY 241 to Dental Materials \& Specialties reporting this title change better reflects outcomes. This title change has been endorsed by the DHY faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendation as presented.
5.2.3 DHY 258, Community Dental Hygiene II, 2-1-3 (Lecture/Open Lab) - Change strategy to 2-1-3 (Lecture/Field Work) - P. Henning discussed the recommendation to change the strategy of this course to 2-1-3 (Lecture/Field Work) reporting this change better fits the experience for students. This strategy change has been endorsed by the DHY faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the strategy change to 2-1-3 (Lecture/Field Work).
5.2.4 DHY 268, Perio Enrichment, 1-0-0 (Self Instruction) - Change strategy to 1-0-0 (Independent Study) - P. Henning discussed the recommendation to change the strategy of DHY 268, Perio Enrichment to 1-0-0 (Independent Study) reporting the change to independent study provides students with better direction. This strategy change has been endorsed by the DHY faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the strategy change to 1-0-0 (Independent Study).
5.3 New Courses (Effective 202010 unless otherwise noted)
5.3.1 ANM 211, Motion Graphics \& Comics, 3-2-3 (Lecture/Standard Lab) - B. Purdy discussed the recommendation of adding ANM 211, Motion Graphics \& Comics, 3-2-3 (Lecture/Standard Lab) to the Multi-Media/Video, AAS program offerings reporting this new course is ANM based and will replace ANM 141, a graphic design based course. This new course has been endorsed by the ANM faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendation as presented.
5.3.2 ANM 231, 3D Animation II, 3-2-3 (Lecture/Standard Lab) - This new course will serve as a more appropriate capstone option for students enrolled in the Animation \& Game Art, AAS program of study and replaces ANM 282, Design Crew Merit. This new course has been endorsed by the ANM faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to recommend this new course be added to the ANM offerings.
5.3.3 BREW 151, Biochemistry of Brewing, 2-2-0 (Lecture/Discussion)
5.3.4 BREW 152, Microbiology of Brewing, 2-1.5-1.5 (Lecture/Standard Lab)

BREW 151, Biochemistry of Brewing and BREW 152, Microbiology of Brewing replace BREW 150, Yeast Ferment \& Microbiology in the Sustainable Brewing curriculum. These new courses will transfer to WMU and provide additional flexibility for students transferring from WMU to complete Sustainable Brewing course work at KVCC. Credit hours do not change. Contact hours decrease from 6 to 5 . After discussion it was MOVED, SECONDED, and CARRIED to add BREW 151, Biochemistry of Brewing and BREW 152 Microbiology of Brewing to the BREW offerings.
5.3.5 PSI 126, Michigan Politics, 3-3-0 (Lecture/Discussion) (Effective 202010) - Postponed.
5.4 Program Inactivations - None presented.
5.5 Program Revisions (Effective 202010 unless otherwise noted)
5.5.1 Animation \& Game Art, AAS - Program changes accommodate the addition of ANM 131, 3D Animation I, and ANM 231, 3D Animation II and the removal of ANM 282, Design Crew Merit Course. These program revisions have been endorsed by the ANM faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Animation \& Game Art, AAS.
5.5.2 Computer Aided Design, AAS - Program changes accommodate the addition of MATH 150, College Algebra as an "or' option for those planning to attend WMU. This program addition has been endorsed by the EDMT faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Computer Aided Design, AAS.
5.5.3 Dental Hygiene, AAS - Program changes accommodate the title revision of DHY 241, Dental Material \& Specialties. The revisions to the Dental Hygiene, AAS have been endorsed by the DHY faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Dental Hygiene, AAS.
5.5.4 Engineering Technology, AAS - Program changes accommodate the addition of EDMT 103, Fundamentals Machine Tool Ops, and removal of ELT 103, Industrial Electronics and MATH 106, Technical Mathematics. H. Stevens reported the program updates were made to reflect the partnership with WMU and create a clearer path for transferability. The revisions to the Engineering Technology, AAS have been endorsed by the EDMT faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the recommendations as presented.
5.5.5 Fire Science, AAS - Program changes accommodate the addition of EMT 105, Medical First Responder, EMT 111, EMT Basic I and EMT 112, EMT Basic II. The revisions to the Fire Science, AAS have been endorsed by the Fire Science faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Fire Science, AAS program of study.
5.5.6 Multi-Media/Nideo, AAS - Program changes accommodate the removal of ANM 141, Graphic Design and the addition of ANM 211 Motion Graphics \& Comics. The revisions to the MultiMedia/Video, AAS have been endorsed by the ANM faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the MultiMedia/Video, AAS program of study.
5.5.7 Sustainable Brewing, AAS - Program changes accommodate the removal of BREW 150, Yeast Ferment \& Microbiology and the addition of BREW 151, Biochemistry of Brewing and BREW 152, Microbiology of Brewing. The revisions to the Sustainable Brewing, AAS have been endorsed by the BREW faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Sustainable Brewing, AAS program of study.
5.5.8 Sustainable Brewing, CERT - Program changes accommodate the removal of BREW 150, Yeast Ferment \& Microbiology and the addition of BREW 151, Biochemistry of Brewing and BREW 152, Microbiology of Brewing. The revisions to the Sustainable Brewing, AAS have been endorsed by the BREW faculty and advisory committee. After discussion it was MOVED, SECONDED, and CARRIED to endorse the revisions to the Sustainable Brewing, CERT program of study.
5.6 New Programs - None presented.
5.7 Other
5.7.1 Guided Pathway Mapping - P. Eagan brought forward a recommendation to bring to this group Guided Pathways Mapping as part of the course and curriculum review process. All present agreed to the recommendation. Guided Pathways recommendations will go through K. Sparrow to be brought to this group.
5.8 Upcoming Meetings - Our next meeting will be on November 16, 2018 at 1 PM in Room 4380 2018/2019 Fall Meetings: December 14, 2018 at 1 PM - Room 4380
5.9 Adjourn - The meeting adjourned at 1:34 p.m.

Future Agenda Items:
FRL 130, Beginning Spanish I, 2-2-0 (Lecture/Discussion) - Inactivation

## Animation \& Game Art Associate of Applied Science

| Program Requirements (48 credits) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Course | Title |  |  | Credits |
| ANM | 100 | Adobe Creative Suite |  | , |
| ANM | 103 | History Animation/Gaming/TBM |  | 3 |
| ANM | 111 | 2D Animation |  | 3 |
| ANM | 120 | Bus Practices/Creative Careers |  | 3 |
| ANM | 131 | 3D Animation I |  | 3 |
| ANM | 132 | Character Design |  | 3 |
| ANM | 142 | Adobe Photoshop |  | 3 - OR |
| ANM | 143 | Adobe Illustrator |  | 3 |
| ANM | 171 | Video Production |  | 3 |
| ANM | 172 | Audio Production |  | 3 |
| ANM | 173 | Storyboarding |  | 3 |
| ANM | 201 | Prof Practices in New Media |  | 3 - OR |
| ANM | 282 | Design Crew Merit Course |  | 3 |
| ANM | 231 | 3D Animation II |  | 3 |
| ANM | 219 | Experimental Animation |  | 3 |
| ANM | 250 | Digital Painting |  | 3 - OR |
| ANM | 251 | Drawing Human Figure Motion |  | 3 |
| ART | 101 | 2D Design \& Color Theory |  | 3 |
| ART | 103 | Drawing \& Composition I |  | 3 |
| ART | 212 | Life Drawing |  | 3 |
| General Education Requirements (18-19 credits) |  |  |  |  |
| Course \# Title |  |  |  | Credits |
| ENG | 110 | College Writing I |  | 3 - OR |
| ENG | 160 | College Writing \& Research |  | 4 |
| ENG | 112 | Writing for the Workplace |  | 3 - OR |
| COM | 113 | Interpersonal Communication |  | 3 |
| COM | 101 | Public Speaking |  | 3 |
| MATH | 115 | Math for the Liberal Arts |  | 4 |
| Social Science ${ }^{1}$ |  |  |  | 3 |
| Wellness/Physical Education ${ }^{2}$ |  |  |  | $\underline{2}$ |
|  |  |  | Total Credits | 66-67 |

Effective: 202010
Board Approval Date: $\qquad$

[^0]
## COMPUTER AIDED DESIGN

Associate of Applied Science

## Program Requirements (44 Credits)



Effective Date: 202010
Board Approval Date: $\qquad$

[^1]
## DENTAL HYGIENE Associate of Applied Science

| Program Requirements ( 20 credits) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Course \# Title |  |  |  | Credits |
| BIO | 110 | Anatomy \& Physiology |  | 4 |
| BIO | 130 | Micro \& Infectious Disease |  | 4 |
| BIO | 210 | Human Physiology |  | 4 |
| CHM | 100 | Fundamentals of Chemistry |  | 4 |
| ENG | 160 | College Writing \& Research |  | 4 |
| Program Requirements (51 credits) |  |  |  |  |
| COM | 113 | Interpersonal Communication |  | 3 |
| DHY | 111 | Anatomy, Embryology, Histology |  | 2 |
| DHY | 113 | Dental Imaging Techniques |  | 1 |
| DHY | 114 | Oral Pathology |  | 2 |
| DHY | 119 | Dental Hygiene Pre-Clinic |  | 5 |
| DHY | 120 | Oral Health Care |  | 2 |
| DHY | 123 | Dental Imaging Interpretation |  | 1 |
| DHY | 124 | Periodontology |  | 3 |
| DHY | 129 | Clinical Dental Hygiene I |  | 4 |
| DHY | 131 | Anatomy of the Head \& Neck |  | 2 |
| DHY | 139 | Clinical Dental Hygiene II |  | 3 |
| DHY | 241 | Dental Material \& Specialties |  | 2 |
| DHY | 242 | Orofacial Myology |  | 1 |
| DHY | 244 | Pain Management |  | 2 |
| DHY | 248 | Community Dental Hygiene I |  | 1 |
| DHY | 249 | Clinical Dental Hygiene III |  | 5 |
| DHY | 251 | Ethics, History, Jurisprudence |  | 1 |
| DHY | 256 | Pharmacology |  | 2 |
| DHY | 258 | Community Dental Hygiene II |  | 2 |
| DHY | 259 | Clinical Dental Hygiene IV |  | 5 |
| DHY | 264 | Board Exam Preparation |  | 2 |
|  |  |  | Total Credits: | 71 |

Effective: 202010

Board Approval Date: $\qquad$

## ENGINEERING TECHNOLOGY <br> Associate of Applied Science

| Program Requirements (44 credits) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Course \# Title |  |  |  | Credits |
| CHM | 120 | General Chemistry I |  | 4 |
| EDMT | 101 | Trends in Manufacturing |  | 3 |
| EDMT | 103 | Fundamentals Machine Tool Ops |  | 4 |
| EDMT | 130 | Tech Drawing w/AutoCAD |  | 4 |
| EDMT | 215 | Statics Strength of Materials |  | 4 |
| EDMT | 260 | Metallurgy/Mechanical Testing |  | 4 |
| ELT | 102 | Applied Electricity |  | 4 |
| ELT | 103 | Industrial Electronics |  | 4 |
| ELT | 120 | Electrical Machines |  | 3 |
| MATH | 152 | Trigonometry |  | 3 |
| PHY | 111 | College Physics I |  | 4 |
| PHY | 112 | College Physics II |  | 4 |
|  |  | Program Electives ${ }^{1}$ |  | 3 |
| General Education Requirements (18-19 credits) |  |  |  |  |
| Course \# Title |  |  |  | Credits |
| ENG | 110 | College Writing I |  | 3 - OR |
| ENG | 160 | College Writing \& Research |  | 4 |
| ENG | 127 | Technical Writing |  | 3 |
| MATH | 106 | Technical Mathematies |  | 4 OR |
| MATH | 150 | College Algebra |  | 4 |
| Political Science ${ }^{2}$ |  |  |  | 3 |
| Social Science ${ }^{3}$ |  |  |  | 3 |
| Wellness/Physical Education ${ }^{4}$ |  |  |  | $\underline{2}$ |
|  |  |  | Total Credits | 62-63 |

Effective Date: 202010
Board Approval Date: $\qquad$

[^2]```
4}\mathrm{ WPPE Elective (2) = WPPE @
```


## FIRE SCIENCE

Associate of Applied Science

| Program Requirements (47 credits) |  |  |  |
| :---: | :---: | :---: | :---: |
| Course \# Title |  |  | Credits |
| BUS | 207 | Organizational Behavior | 3 - OR - |
| BUS | 263 | Supervision | 3 |
| CHM | 100 | Fundamentals of Chemistry | 4 |
| EMT | 110 | Basic Emergency Medical Tech | 9 - OR - |
| EMT | 105 | Medical First Responder | 3 - AND - |
| EMT | 111 | EMT Basic I | 3 - AND - |
| EMT | 112 | EMT Basic II | 3 |
| EMT | 115 | EMT Clinical | 1 |
| FIRE | 102 | Firefighter II | 12 |
| FIRE | 110 | Fire Prevention | 3 |
| FIRE | 111 | Building Construction | 3 |
| FIRE | 112 | Fire Service Tactics | 3 |
| FIRE | 210 | Fire Cause Determination | 3 |
| FIRE | 211 | Instructional Techniques | 3 |
| FIRE | 212 | Incident Management | 3 |


| General Education Requirements (16-25 credits) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Course \# Title |  |  |  | Credits |
| ENG | 110 | College Writing I |  | 3 - OR |
| ENG | 160 | College Writing \& Research |  | 4 |
| ENG | 127 | Technical Writing |  | 3 |
| PSY | 150 | Introductory Psychology |  | 3 - OR - |
| SOC | 102 | Principles of Sociology |  | 3 - OR - |
| FIRE | 278 | Fire Science Internship |  | 1 to 9 |
|  |  | Mathematics/Science ${ }^{1}$ |  | 4 |
|  |  | Political Science ${ }^{2}$ |  | 3 |
|  |  | Wellness/Physical Education ${ }^{3}$ |  | $\underline{2}$ |
|  |  |  | Total Credits | 63-72 |

Effective Date: 202010
Board Approval Date: $\qquad$

[^3]
## MULTI-MEDIANIDEO Associate of Applied Science

| Program Requirements (48 credits) |  |  |  |
| :---: | :---: | :---: | :---: |
| Course \# Title |  |  | Credits |
| ANM | 100 | Adobe Creative Suite | 3 |
| ANM | 103 | History Animation/Gaming/TBM | 3 |
| ANM | 120 | Bus Practices/Creative Careers | 3 |
| ANM | 141 | Craphic Design | 3 |
| ANM | 142 | Adobe Photoshop | 3 |
| ANM | 171 | Video Production | 3 |
| ANM | 172 | Audio Production | 3 |
| ANM | 173 | Storyboarding | 3 |
| ANM | 174 | Script Writing | 3 |
| ANM | 186 | Multimedia | 3 |
| ANM | 201 | Prof Practices in New Media | 3 - OR |
| ANM | 282 | Design Crew Merit Course | 3 |
| ANM | 211 | Motion Graphics \& Comics | 3 |
| ANM | 219 | Experimental Animation | 3 - OR |
| ART | 219 | Studio Lighting | 3 |
| ANM | 271 | Advanced Video Production | 3 |
| ART | 101 | 2D Design \& Color Theory | 3 |
| ART | 133 | Intro to Digital Photography | 3 |
| ART | 215 | Advanced Digital Photography | 3 |

General Education Requirements ( $18-19$ credits)

| Course \#Title |  |  |
| :--- | :--- | :--- |
| ENG | 110 | College Writing I |
| ENG | 160 | College Writing \& Research |
| ENG | 112 | Writing for the Workplace |
| COM | 113 | Interpersonal Communications |
| COM | 101 | Public Speaking |
| MATH | 115 | Math for the Liberal Arts |
| Social Science ${ }^{1}$ |  | 4 |
| Wellness/Physical Education ${ }^{2}$ |  |  |
|  |  |  |

Effective Term: 202010
Board Approval Date: $\qquad$

[^4]
## SUSTAINABLE BREWING

## Associate of Applied Science



Effective Term: 202010

Board Approved Date: $\qquad$
${ }^{1}$ Program Elective (3) = ACC 101, 102; AGF 120, 140; ANM 100; BUS 101, 115; CUL 106, 110, 130; EDMT 103; WELD 120
${ }^{2}$ Political Science Elective (3) = PSI 100, 101, 102

## Sustainable Brewing

## Certificate

| Program Required Courses |  | Credits |
| :--- | :--- | ---: |
| BREW 110 | Brewing History \& Introduction | 2 |
| BREW 130 | Materials, Malting \& Mashing | 3 |
| BREW 140 | Recipe, Process \& Technology | 4 |
| BREW 150 | Yeast Fermentation \& Miere | 4 |
| BREW 151 | Biochemistry of Brewing | 2 |
| BREW 152 | Microbiology of Brewing | 2 |
| BREW 160 | Styles, Sensory \& Food Pairing | 2 |
| BREW 170 | Fermentation \& Finishing Tech | 3 |
| BREW 210 | Brewing Practicum I | 3 |
| BREW 220 | Brewing Practicum II | 1 |
| BREW 230 | Packaging \& Distribution |  |
| BREW 250 | Brewing Quality Control |  |
| BREW 275 | Brewing Externship |  |
| CUL 100 | Food Safety Essentials | Total Credits |
|  |  |  |

Board Approved Date: $\qquad$
For Semester: $\qquad$


[^0]:    ${ }^{1}$ Social Science Elective (3) = AGF 110; ECO 110, 201, 202, 240; GEO 102; HRY 100, 101, 102, 103, 104, 207, 210, 212, 200, 230, 240, 251, 252, 260; HUM 150; PSI 100, 101, 102, 201, 202, 250; PSY 150, 160, 170, 190, 240, 250, 260; SOC 102, 103, 105, 106, 170, 200, 201, 202, 205, 207, 261, 273
    ${ }^{2}$ WPE Elective (2) = WPE @

[^1]:    ${ }^{1}$ Political Science Elective (3) $=$ PSI 100, 101, 102
    ${ }^{2}$ Social Science Elective (3) = ECO 110, 201, 202, 240; GEO 102; HRY 100, 101, 102, 103, 104, 207, 210, 212, 220, 230, 240, 251, 252, 260; PSI 100, 101, 102, 201, 202, 250; PSY 150, 160, 170, 180, 190, 250, 260; SOC 102, 103, 105, 106, 170, 200, 201, 202, 205, 207, 261, 273
    ${ }^{3}$ WPE Elective (2) = WPE @

[^2]:    ${ }^{1}$ Program Electives (4) = ACC 101; EDMT 103, 104, 120, 125, 145; ECO 202; MATH 160
    ${ }^{2}$ Political Science Elective (3) $=$ PSI 100, 101, 102
    ${ }^{3}$ Social Science Elective (3) = ECO 110, 201, 202, 240; GEO 102; HRY 100, 101, 102, 103, 104, 207, 210, 212, 220, 230, 240, 251, 252, 260; PSI 100, 101, 102, 201, 202, 250; PSY 150, 160, 170, 180, 190, 250, 260; SOC 102, 103, 105, 106, 170, 200, 201, 202, 205, 207, 261, 273

[^3]:    ${ }^{1}$ Math/Science Elective (4) = BIO 100, 101, 104, 105, 110, 120, 121, 130, 201, 210; BUS 102; CHM 120, 130, 150, 220, 230, 250; GEO 110, 120; MATH 106, 115, 116, 120, 150, 152, 156, 158, 160, 162, 216, 220, 260, 264; PHY 100, 111, 112, 120, 124, 221, 222
    ${ }^{2}$ Political Science Elective (3) = PSI 100, 101, 102
    ${ }^{3}$ WPE Elective (2) = WPE @

[^4]:    ${ }^{1}$ Social Science Elective (3) = AGF 110; ECO 110, 201, 202, 240; GEO 102; HRY 100, 101, 102, 103, 104, 207, 210, 212, 220, 230, 240, 251, 252, 260; HUM 150; PSI 100, 101, 102, 201, 202, 250; PSY 150, 160 170, 190, 240, 250, 260; SOC 102, 103, 105, 106, 170, 200, 201, 202, 205, 207, 261, 273
    ${ }^{2}$ WPPE Elective (2) = WPE @

