

**TEXAS HIGHER EDUCATION COORDINATING BOARD**  
**Summary Notes/Minutes**  
**Health Services Field of Study Advisory Committee Meeting**  
**1200 East Anderson Lane, Board Room**  
**Austin, Texas**  
**May 2, 2019, 1:00 PM – 5:00 PM**  
**May 3, 2019, 8:30 AM – 12:00 PM**

*The webcasts of these meetings are available at the following links:*

[https://www.youtube.com/watch?v=OCHK\\_oqMCrc](https://www.youtube.com/watch?v=OCHK_oqMCrc)

<https://www.youtube.com/watch?v=INC7zhhUkDA>

**Day 1: May 2, 2019, 1:00 PM - 5:00 PM**

**1. Call to order and introductions**

Allen Michie called the meeting to order at 1:00 PM.

The following committee members were present:

Vanessa Coonrod, Del Mar College-West Campus  
Veronica Dominguez, El Paso Community College-Rio Grande Campus  
David Falleur, Texas State University  
Jimi Francis, The University of Texas at Tyler  
Peter Hu, The University of Texas M.D. Anderson Cancer Center  
LeAnne Hutson, Tarleton State University  
Kristi Kleinig, Kilgore College  
Nina Maniotis, Weatherford College  
Don Martin, El Centro College  
Alexander Okwonna, San Jacinto College-South Campus  
Rhonda Rahn, Texas A&M University  
Mary Jean Sparks, Texas A&M University-Corpus Christi  
Michele Voight, Houston Community College  
Lorraine Torres, The University of Texas at El Paso

Coordinating Board Staff present:

Allen Michie, Program Director

**2. Consideration of appointing a recording secretary**

Nina Maniotis volunteered to serve as recording secretary and was elected by acclamation.

**3. Consideration of election of Co-Chairs**

Alexander Okwonna (San Jacinto College-South Campus) was nominated to serve as co-chair from two-year institutions and was elected by acclamation. Jimi Francis (The University of Texas at Tyler) was nominated from four-year institutions and was elected by acclamation.

#### **4. Public testimony**

No one was available for public testimony.

#### **5. Break for consultation between Coordinating Board staff and Co-Chairs**

The committee recessed for 15 minutes.

#### **6. Overview of Field of Study rules and mission – Dr. Allen Michie**

Michie provided an overview of the Fields of Study (FOS) statute, how it is part of a wider range of transfer success initiatives, and how it contributes to the Texas Higher Education Coordinating Board's 60x30TX strategic plan.

Michie stated the goals of the meeting:

- Review curricula from programs at representative two- and four-year institutions
- Review approved courses in the *Academic Course Guide Manual (ACGM)*
- Decide which lower division courses are necessary for success in upper division courses in a major
- Adjust course objectives and descriptions as necessary
- Balance student freedom with institution priorities
- Create a guaranteed pathway to the degree and minimize the number of excess hours that students take

Michie answered questions about FOS and the approval process.

#### **7. Discussion and consideration of the Health Services Field of Study curriculum**

In response to a question from Torres, Michie said that universities that do not offer FOS courses will need to realign their courses with community colleges so that there is not a knowledge gap in the upper-division classes.

Okwonna, Sparks, and Francis asked what programs the FOS would encompass. Torres asked if the FOS would cover all the Health Sciences, including Clinical Lab Science, Public Health, Physical Therapy, and Occupational Therapy. Michie responded the committee is deciding for the General Health Services, and the committee will need to decide if certain areas such as Clinical Lab Sciences need their own FOS. Hu responded that Clinical Lab Sciences has many subspecialties that need to be considered. Michie showed the CIP codes grouped within General Health Services and said the committee will need to determine if the FOS applies to each one.

Committee members discussed which courses from the *Lower-Division Academic Course Guide Manual (ACGM)* can be eliminated as not appropriate for the FOS. The committee also discussed what courses are necessary as prerequisites for upper-division courses.

The consensus was to specify which courses should be taken for the Social Sciences component

of the general core curriculum. Discussion included introductory courses in Psychology and Sociology. There was consensus not to specify courses for the Communications component.

Committee members considered the length of the FOS and whether it could serve for both the FOS and a stand-alone associate degree. Michie said that the FOS can exclude disciplines for which the associate is the terminal degree.

The committee worked through the list of programs under consideration and identified five areas in which to create a FOS and the CIP code designations each area would cover:

1. General Health Services

Health Services/Allied Health, General Respiratory Care

2. Infomatics

Health, Healthcare Administration/Management, Health Information/Medical Records/Administrator

3. Imaging-MRI

DM Sonography, Radiologic Technology, Medical Radiologic Technology/Science-Radiation Therapist, Nuclear Medicine Tech

4. Clinical Laboratory Sciences

Cytotechnology, Histotechnology, Cytogenetic Technology, Histologic Technician, Clinical Laboratory Science/Medical Technology/Technologist

5. Public Health

Occupational Health and Industrial Hygiene, Community Health and Preventive Medicine Services/Liaison/Counseling, Behavioral Aspects of Health, Public Health/Counseling/General, Substance Abuse and Addiction Counseling, Community Health and Preventive Medicine, Music Therapy/Therapist, Rehabilitation Science, Medical Infomatics

The five areas were divided among committee members to consider overnight. Michie asked committee members to consider licensure/accreditation requirements, whether FOS courses could double-dip with the core curriculum, and requirements for the major.

## **8. Adjournment**

The meeting adjourned at 5:00 PM.

## **Day 2: May 3, 2019, 8:30 AM – 12:00 PM**

### **1. Call to order**

Okwonna and Francis called the meeting to order at 8:30 AM.

## 2. Discussion and consideration of the Health Services Field of Study curriculum

The committee broke into five groups to consider the five proposed areas for separate FOS: General Health Services, Infomatics, Imaging, Clinical Laboratory Sciences, and Public Health.

Martin mentioned that most of the programs in the General Health Services category were terminal. Martin said that as a student enters a BAAS or BAT program, they are expected to be core complete. There was consensus amongst the group not to have Math in the General Health FOS. Martin questioned the need for General Chemistry in the FOS. Voight replied that some Occupational or Physical Therapy programs require Chemistry. Okwonna replied that the committee could leave it in and review the public comments.

Hu suggested that Anatomy & Physiology be removed. Okwonna suggested the group go more general for this category and include some English and Math so that this FOS would cover multiple programs in this diverse category.

The committee debated if the category was too broad or it in needs an FOS. Michie replied this area was included due to the high number of transfer students within the 51.0000 CIP code. The consensus was to create a limited FOS.

Once the FOS for General Health Services was determined, committee members adjusted it for the remaining four categories. After discussion of the appropriate courses for all five of the categories, these were proposed FOS to go out for public comment:

**Table 1. Proposed 2019 FOS Curriculum for Health Services: General/Academic Track**

| Course Title  | Course Number                                       | SCH |
|---|---|-----|
| Composition I   | ENGL 1301   | 3   |
| Composition II  | ENGL 1302   | 3   |
| College Algebra   | MATH 1314   | 3   |
| Choose one of the following:<br>I. Biology for Science Majors I (lecture + lab)<br>II:<br>A. Biology for Science Majors I (lecture)<br>B. Biology for Science Majors I (lab)    | I. BIOL 1406<br>II:<br>a. BIOL 1306<br>b. BIOL 1106 | 4   |
| Choose one of the following:<br>I. Biology for Science Majors II (lecture + lab)<br>II:<br>A. Biology for Science Majors II (lecture)<br>B. Biology for Science Majors II (lab) | I. BIOL 1407<br>II:<br>a. BIOL 1307<br>b. BIOL 1107 | 4   |
| General Psychology  | PSYC 2301   | 3   |

|  |   |           |
|--|---|-----------|
| Choose one of the following:<br>I:<br>A: General Chemistry I (lecture + lab)<br>B:<br>1. General Chemistry I (lecture)<br>2. General Chemistry I (lab)<br>II:<br>A. Introductory Chemistry I (lecture + lab)<br>B:<br>1. Introductory Chemistry I (lecture)<br>2. Introductory Chemistry I (lab) | I:<br>A. CHEM 1411<br>B:<br>1. CHEM 1311<br>2. CHEM 1111<br>II:<br>A. CHEM 1406<br>B:<br>1. CHEM 1305<br>2. CHEM 1105 | 4         |
| Choose one of the following:<br>I. Anatomy & Physiology I (lecture + lab)<br>II:<br>A. Anatomy & Physiology I (lecture)<br>B. Anatomy & Physiology I (lab)   | I. BIOL 2401<br>II:<br>A. BIOL 2301<br>B. BIOL 2101   | 4         |
| <b>TOTAL</b>   |   | <b>28</b> |

**Table 2. Proposed 2019 FOS Curriculum for Health Services: Radiological Sciences Track**

| <b>Course Title</b>   | <b>Course Number</b>                                | <b>SCH</b> |
|---|---|------------|
| Pre-Calculus Math   | MATH 2312   | 3          |
| Choose one of the following:<br>I. Anatomy & Physiology I (lecture + lab)<br>II:<br>A. Anatomy & Physiology I (lecture)<br>B. Anatomy & Physiology I (lab)    | I. BIOL 2401<br>II:<br>A. BIOL 2301<br>B. BIOL 2101 | 4          |
| Choose one of the following:<br>I. Anatomy & Physiology II (lecture + lab)<br>II:<br>A. Anatomy & Physiology II (lecture)<br>B. Anatomy & Physiology II (lab) | I. BIOL 2402<br>II:<br>A. BIOL 2302<br>B. BIOL 2102 | 4          |
| General Psychology  | PSYC 2301   | 3          |
| Choose one of the following:<br>I. General Chemistry I (lecture + lab)<br>II:<br>A. General Chemistry I (lecture)<br>B. General Chemistry I (lab)             | I: CHEM 1411<br>II:<br>A. CHEM 1311<br>B. CHEM 1111 | 4          |
| Choose one of the following:<br>I. General Chemistry II (lecture + lab)<br>II:<br>A. General Chemistry II (lecture)   | I: CHEM 1412<br>II:<br>A. CHEM 1312<br>B. CHEM 1112 | 4          |

|  |   |           |
|--|---|-----------|
| B. General Chemistry II (lab)  |   |           |
| Choose one of the following:<br>I. College Physics I (lecture + lab)<br>II:<br>A. College Physics I (lecture)<br>B. College Physics I (lab)    | I: PHYS 1401<br>II:<br>A. PHYS 1301<br>B. PHYS 1101 | 4         |
| Choose one of the following:<br>I. College Physics II (lecture + lab)<br>II:<br>A. College Physics II (lecture)<br>B. College Physics II (lab) | I: PHYS 1402<br>II:<br>A. PHYS 1302<br>B. PHYS 1102 | 4         |
| <b>TOTAL</b>   |   | <b>30</b> |

**Table 3. Proposed 2019 FOS Curriculum for Health Services: Public Health Track**

| <b>Course Title</b>  | <b>Course Number</b>                                | <b>SCH</b> |
|--|---|------------|
| Elementary Statistical Methods   | MATH 1342   | 3          |
| Choose one of the following:<br>I. Biology for Science Majors I (lecture + lab)<br>II:<br>A. Biology for Science Majors I (lecture)<br>B. Biology for Science Majors I (lab) | I. BIOL 1406<br>II:<br>a. BIOL 1306<br>b. BIOL 1106 | 4          |
| Choose one of the following:<br>I. General Chemistry I (lecture + lab)<br>II:<br>A. General Chemistry I (lecture)<br>B. General Chemistry I (lab)                            | I. CHEM 1411<br>II:<br>A. CHEM 1311<br>B. CHEM 1111 | 4          |
| General Psychology   | PSYC 2301   | 3          |
| Choose one of the following:<br>I. Anatomy & Physiology I (lecture + lab)<br>II:<br>A. Anatomy & Physiology I (lecture)<br>B. Anatomy & Physiology I (lab)                   | I. BIOL 2401<br>II:<br>A. BIOL 2301<br>B. BIOL 2101 | 4          |
| Choose one of the following:<br>I. Anatomy & Physiology II (lecture + lab)<br>II:<br>A. Anatomy & Physiology II (lecture)<br>B. Anatomy & Physiology II (lab)                | I. BIOL 2402<br>II:<br>A. BIOL 2302<br>B. BIOL 2102 | 4          |

|                            |           |           |
|----------------------------|-----------|-----------|
| Nutrition and Diet Therapy | BIOL 1322 | 3         |
| Personal/Community Health  | PHED 1304 | 3         |
| <b>TOTAL</b>               |           | <b>28</b> |

**Table 4. Proposed 2019 FOS Curriculum for Health Services: Informatics and Health Information Management**

| <b>Course Title</b>   | <b>Course Number</b>                                | <b>SCH</b> |
|---|---|------------|
| Elementary Statistical Methods  | MATH 1342   | 3          |
| Choose one of the following:<br>I. Anatomy & Physiology I (lecture + lab)<br>II:<br>A. Anatomy & Physiology I (lecture)<br>B. Anatomy & Physiology I (lab)    | I. BIOL 2401<br>II:<br>A. BIOL 2301<br>B. BIOL 2101 | 4          |
| Choose one of the following:<br>I. Anatomy & Physiology II (lecture + lab)<br>II:<br>A. Anatomy & Physiology II (lecture)<br>B. Anatomy & Physiology II (lab) | I. BIOL 2402<br>II:<br>A. BIOL 2302<br>B. BIOL 2102 | 4          |
| General Psychology  | PSYC 2301   | 3          |
| Personal/Community Health   | PHED 1304   | 3          |
| Business Computer Applications  | BCIS 1305   | 3          |
| <b>TOTAL</b>  |   | <b>20</b>  |

**Table 5. Proposed 2019 FOS Curriculum for Health Services: Clinical Laboratory Science**

| <b>Course Title</b>  | <b>Course Number</b>  | <b>SCH</b> |
|--|---|------------|
| Elementary Statistical Methods   | MATH 1342   | 3          |
| Choose two of the following:<br>I:<br>A. Biology for Science Majors I (lecture + lab)<br>B:<br>1. Biology for Science Majors I (lecture)<br>2. Biology for Science Majors I (lab)<br>II:<br>A. Biology for Science Majors II (lecture + lab)<br>1. Biology for Science Majors II (lecture) | I:<br>A. BIOL 1406<br>B:<br>1. BIOL 1306<br>2. BIOL 1106<br>II:<br>A. BIOL 1407<br>B:<br>1. BIOL 1307 | 8          |

|  |  |           |
|--|--|-----------|
| <p>2. Biology for Science Majors II (lab)</p> <p>III:<br/>A. Anatomy &amp; Physiology I (lecture + lab)<br/>B:<br/>1. Anatomy &amp; Physiology I (lecture)<br/>2. Anatomy &amp; Physiology I (lab)</p> <p>IV:<br/>A. Anatomy &amp; Physiology II (lecture + lab)<br/>B:<br/>1. Anatomy &amp; Physiology II (lecture)<br/>2. Anatomy &amp; Physiology II (lab)</p> <p>V.<br/>A. Genetics (lecture + lab)<br/>B:<br/>1. Genetics (lecture)<br/>2. Genetics (lab)</p> | <p>2. BIOL 1107</p> <p>III:<br/>A. BIOL 2401<br/>B:<br/>1. BIOL 2301<br/>2. BIOL 2101</p> <p>IV:<br/>A. BIOL 2402<br/>B:<br/>1. BIOL 2302<br/>2. BIOL 2102</p> <p>V.<br/>A. BIOL 2416<br/>B:<br/>1. BIOL 2316<br/>2. BIOL 2116</p> |           |
| <p>Choose one of the following:<br/>I. General Chemistry I (lecture + lab)<br/>II:<br/>A. General Chemistry I (lecture)<br/>B. General Chemistry I (lab)</p>   | <p>I. CHEM 1411<br/>II:<br/>A. CHEM 1311<br/>B. CHEM 1111</p>  | 4         |
| <p>Choose one of the following:<br/>I. General Chemistry II (lecture + lab)<br/>II:<br/>A. General Chemistry II (lecture)<br/>B. General Chemistry II (lab)</p>  | <p>I: CHEM 1412<br/>II:<br/>A. CHEM 1312<br/>B. CHEM 1112</p>  | 4         |
| <p>Choose one of the following:<br/>I: Organic Chemistry I (lecture + lab)<br/><br/>II:<br/>A. Organic Chemistry I (lecture)<br/>B. Organic Chemistry I (lab)</p>  | <p>I. CHEM 2423<br/><br/>II:<br/>A. CHEM 2323<br/>B. CHEM 2123</p>   | 4         |
| <p>Choose one of the following:<br/>I. Microbiology for Science Majors (lecture + lab)<br/>II:<br/>A. Microbiology for Science Majors (lecture)<br/>B. Microbiology for Science Majors (lab)</p>   | <p>I. BIOL 2421<br/>II:<br/>A. BIOL 2321<br/>B. BIOL 2121</p>  | 4         |
| <b>TOTAL</b>   |  | <b>27</b> |



### **3. Overview of the timeline for public comments and Field of Study approval – Dr. Michie**

Michie stated that the proposed FOS would go out for a 30-day public comment period. Committee members would be given a copy of each comment for a response. If changes are made, the revised FOS would go out for a second 30-day comment period. The FOS curriculum would go before the Coordinating Board's Committee on Academic and Workforce Success committee and the full Board for final approval.

### **4. Consideration of authorization of Co-Chairs to approve the meeting notes, make nonsubstantive edits to documents, and conduct assorted committee business relating to submission of the Field of Study to the Coordinating Board for approval**

A motion was made to authorize the co-chairs to approve the final meeting minutes and carry other related business for the FOS approval process before the Board. The motion passed.

### **5. Adjournment**

A motion was made to adjourn and was passed by acclamation at 5:00