|  |  |
| --- | --- |
| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **Modification Type: [ ]Admissions, [X]Curricular Sequence, or [ ]Other** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Department Chair** | |  |  | | --- | --- | | Jason L Causey | 2/26/2020 |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Shanon Brantley | 2/26/2021 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Director of Assessment** *(only for changes impacting assessment)* | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | Susan Hanrahan 2/26/21 | Enter date |   **College Dean** | |  |  | | --- | --- | | Alan Utter | 3/15/2021 |   **Vice Chancellor for Academic Affairs** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** |  |

1. **Contact Person** (Name, Email Address, Phone Number)

Amanda Carpenter

acarpenter@astate.edu

(870) 972-3894

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

Addition of a domain study option in Healthcare to the B.S. in Data Science and Data Analytics program.

1. **Effective Date**

Fall 2021

1. **Justification –** *Please provide details as to why this change is necessary.*

To provide a domain study option for students interested in practicing data analytics in healthcare-related industries, as a part of the new B.S. in Data Science and Data Analytics, in the Data Analytics emphasis.

**Bulletin Changes**

|  |
| --- |
| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

**After Page 185, following the “Data Science and Data Analytics Program” section and before the heading on “Engineering Programs”**

**DOMAIN STUDIES**

**DOMAIN STUDY: Healthcare**

**EMPHASIS: Data Analytics**

**SPONSORING COLLEGE: College of Nursing and Health Professions**

|  |  |
| --- | --- |
| **Required Courses** | **Sem. Hours** |
| HP 2013, Medical Terminology | 3 |
| HP 2112, Introduction to the United States Healthcare System | 2 |
| HP 3343, Quality Improvement | 3 |
| HP 3353, Public Health: Principles and Practice | 3 |
| HP 3413, Cultural Competence in the Health Professions | 3 |
| HP 3673, Critical Issues in Health | 3 |
| HP 4213, Chronic Illness\* | 3 |
| HP 4323, Patient Safety | 3 |
| HP 4443, Healthcare Management | 3 |
| HP 4543, Healthcare Service Delivery | 3 |
| COMS 2253, Introduction to Health Communication | 3 |
| **Sub-total** | **32** |
| **Electives** |  |
| **Sub-total** | **32** |
| **Domain studies total** | **32** |

\*Note: HP 3123 (Introduction to Disease) and HP 3463 (Introduction to Pharmaceuticals) prerequisites waived for students enrolled in the Data Analytics Healthcare Domain

**Appendix A, 8-Semester Plan**

(**Referenced in #2** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Arkansas State University-Jonesboro**  **Degree: Bachelor of Science in Data Science and Data Analytics**  **Major: Data Analytics, Healthcare Domain**  **Year: 2021–2022** | | | | | | | | |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree. | | | | | | | | |
| **Year 1** | | | |  | **Year 1** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| ENG 1003 | Composition I | 3 | X |  | ENG 1013 | Comp II | 3 | X |
| MATH 1023 | College Algebra | 3 | X |  | COMS 1203 | Oral Communication | 3 | X |
| CS 1093 or any other FYE course | Making Connections Computer Science, or any other Making Connections (FYE) course | 2–3 |  |  | MATH 2143  MATH 2194 | Choose one:  Business Calculus  Survey of Calculus | 3–4 |  |
| CS 1013 | Intro to Computers | 3 |  |  | CS 1114 | Concepts of Programming | 4 |  |
| HIST 2763  HIST 2773  POSC 2103 | Choose one:  US History to 1876  US History since 1876  Intro to US Government | 3 | X |  | Gen Ed Social Science\*  GEO 2613  HIST 1013  HIST 1023  SOC 2213  PSY 2013  POSC 1003  CMAC 1003 | Choose one:  Intro to Geography  World Civ. to 1660  World Civ. since 1660  Intro to Sociology  Intro to Psychology  Intro to Politics  Intro to Mass Communication | 3 | X |
| **Total Hours** |  | 14–15 |  |  | **Total Hours** |  | 16–17 |  |
| **Year 2** | | | |  | **Year 2** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| Life Science Gen Ed.  BIOL 1003/1001  BIOL 1033/1001  BIOL 1063/1001  BIO 1503/1501  BIO 2013/2011  BIO 2103/2101  BIO 2203/2001 | Choose one:  Biological Science/Lab  Biology of Sex/Lab  People & Environment/Lab  Biology of Plants/Lab  Biology of the Cell/Lab  Microbiology for Nursing and Allied Health/Lab  Human Anatomy & Physiology/Lab | 4 | X |  | Gen Ed Social Science\*  GEO 2613  HIST 1013  HIST 1023  SOC 2213  PSY 2013  POSC 1003  CMAC 1003 | Choose one:  Intro to Geography  World Civ. to 1660  World Civ. since 1660  Intro to Sociology  Intro to Psychology  Intro to Politics  Intro to Mass Communication | 3 | X |
| AGST 3503 | Geospatial Data Applications (DSDA 101) | 3 |  |  | Physical Science Gen. Ed.  CHEM 1013/1011  CHEM 1043/1041  GEOL 1003/1001  PHSC 1014  PHSC 1203/1201  PHYS 1103/1101  PHYS 2034  PHYS 2054 | Choose one:  General Chemistry I/Lab  Fund. Concepts of Chemistry/Lab  Environmental Geology/Lab  Energy and the Environment  Physical Science/Lab  Intro to Space Science/Lab  University Physics I  General Physics I | 4 | X |
| Fine Arts:  ART 2503  MUS 2503  TEHA 2503 | Choose one:  Fine Arts – Visual  Fine Arts – Music  Fine Arts – Theater | 3 | X |  | DATA 2004 | Programming for Data Analysis | 4 |  |
| STAT 3233 | Applied Stat 1 | 3 |  |  | HP 2013 | Medical Terminology | 3 |  |
| PHIL 1103 | Intro to Philosophy (Humanities Elective) | 3 | X |  | HP 2112 | Introduction to the U.S. Healthcare System | 2 |  |
| **Total Hours** |  | 16 |  |  | **Total Hours** |  | 16 |  |
| **Year 3** | | | |  | **Year 3** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| DATA 3003 | Applied Database and Data Mining | 3 |  |  | STAT 3243 | Regression Analysis and ANOVA | 3 |  |
| STAT 3133 | Applied Categorical Data Analysis | 3 |  |  | AGST 3543 | Fundamentals of GIS/GPS | 3 |  |
| DATA 3011 | Seminar | 1 |  |  | HP 3343 | Quality Improvement | 3 |  |
| COMS 2253 | Introduction to Health Communication | 3 |  |  | HP 3673 | Critical Issues in Health | 3 |  |
| HP 3353 | Public Health: Principles and Practice | 3 |  |  | HP 3413 | Cultural Competence in the Health Professions | 3 |  |
| HP 4213 | Chronic Illness | 3 |  |  |  |  |  |  |
| **Total Hours** |  | 16 |  |  | **Total Hours** |  | 15 |  |
| **Year 4** | | | |  | **Year 4** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| DATA 4003 | Fundamental Concepts in Design of Experiments | 3 |  |  | DATA 4013 | Capstone Design | 3 |  |
| POSC 3003  STAT 4483  AGEC 4253 | Choose one:  Intro to Political Analysis  Statistical Methods using R  Agricultural & Environmental Data Science | 3 |  |  | PHIL 3723 | Computers, Ethics, and Society | 3 |  |
| DATA 3023 | Data Visualization and Data Communication | 3 |  |  | DATA 3031 | Internship | 1 |  |
| HP 4323 | Patient Safety | 3 |  |  | HP 4543 | Healthcare Service Delivery | 3 |  |
| HP 4443 | Healthcare Management | 3 |  |  |  |  |  |  |
| **Total Hours** |  | 15 |  |  | **Total Hours** |  | 10 |  |
| **Total Jr/Sr Hours 56 Total Degree Hours 120** | | | | | | | | |
| **Graduation Requirements:** | | | | | | | | |