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

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| --- |
| **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.

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**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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**Department Chair**  |

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| --- | --- |
| Jason L Causey | 2/26/2020 |

 **Head of Unit (if applicable)**   |
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| Shanon Brantley | 2/26/2021 |

**College Curriculum Committee Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Undergraduate Curriculum Council Chair** |
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**Director of Assessment** *(only for changes impacting assessment)* |

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**Graduate Curriculum Committee Chair** |
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| Susan Hanrahan 2/26/21 | Enter date |

**College Dean** |

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| Alan Utter | 3/15/2021 |

**Vice Chancellor for Academic Affairs** |
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**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**

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| **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**

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| **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*.

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| **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 2143MATH 2194 | Choose one: Business CalculusSurvey of Calculus | 3–4 |  |
| CS 1013 | Intro to Computers | 3 |  |  | CS 1114 | Concepts of Programming | 4 |  |
| HIST 2763HIST 2773POSC 2103 | Choose one: US History to 1876US History since 1876Intro to US Government | 3 | X |  | Gen Ed Social Science\*GEO 2613HIST 1013HIST 1023SOC 2213PSY 2013POSC 1003CMAC 1003 | Choose one: Intro to GeographyWorld Civ. to 1660World Civ. since 1660Intro to SociologyIntro to PsychologyIntro to PoliticsIntro 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 1003/1001BIOL 1033/1001BIOL 1063/1001BIO 1503/1501BIO 2013/2011BIO 2103/2101BIO 2203/2001 | Choose one:Biological Science/LabBiology of Sex/LabPeople & Environment/LabBiology of Plants/LabBiology of the Cell/LabMicrobiology for Nursing and Allied Health/LabHuman Anatomy & Physiology/Lab | 4 | X |  | Gen Ed Social Science\*GEO 2613HIST 1013HIST 1023SOC 2213PSY 2013POSC 1003CMAC 1003 | Choose one: Intro to GeographyWorld Civ. to 1660World Civ. since 1660Intro to SociologyIntro to PsychologyIntro to PoliticsIntro to Mass Communication | 3 | X |
| AGST 3503 | Geospatial Data Applications (DSDA 101) | 3 |  |  | Physical Science Gen. Ed.CHEM 1013/1011CHEM 1043/1041GEOL 1003/1001PHSC 1014PHSC 1203/1201PHYS 1103/1101PHYS 2034PHYS 2054 | Choose one: General Chemistry I/LabFund. Concepts of Chemistry/LabEnvironmental Geology/LabEnergy and the Environment Physical Science/LabIntro to Space Science/LabUniversity Physics IGeneral Physics I | 4 | X  |
| Fine Arts:ART 2503MUS 2503TEHA 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 3003STAT 4483AGEC 4253 | Choose one: Intro to Political AnalysisStatistical Methods using RAgricultural & 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:** |