**Information Technology – Database Administration AAS**

**Program Proposal**

**Rationale:**

The community has expressed a need for advanced database skills. This has been brought forward to us through our advisory board at several of the past meetings. This course would meet one of those skill sets and could be considered a technical elective for any of the current Computer Programming or IT programs at M State, as well as in a possible new database program.

**Program Outcomes**

1. Function effectively within teams
2. Demonstrate professionalism, including presentation skills, utilizing research for problem solving, working independently and in teams, being accountable and meeting deadlines.
3. Perform enterprise-level database administration and tasks pertaining to security.
4. Generate database driven reports to support business intelligence
5. Demonstrate appropriate ethical and security practices in dealing with data.
6. Establish interconnectivity of databases and web services.
7. Apply testing and debugging methods to assure quality and workability of finished product.
8. Devise backup and recovery measures in a database environment.

**Semester 1**

CPTR1108 CISCO 1

CPTR1170 WEB ENGINEERING I

CPTR1001 INTRODUCTION TO PROGRAMMING AND SCRIPTING

CPTR1106 MICROCOMPUTER DATABASES

MATH1100 World of Math (prerequisite Math1020)

**Semester 2**

CSCI1121 COMPUTER SCIENCE I

CPTR2224 LINUX 1

CPTR2230 STRUCTURED QUERY LANGUAGE (prerequisite CPTR1106)

CPTR2210 DATABASE REPORTING (prerequisite CPTR1106)

MATH1114 COLLEGE ALGEBRA (prerequisite MATH 1020)

**Semester 3**

CPTR2272 NETWORK OPERATING SYSTEMS (prerequisite CPTR 1125, 1138, 1148 or 2224)

CPTR2234 LINUX II (prerequisite CPTR2224)

CPTR2260 ADVANCED SQL (prerequisite CPTR2230)

HUM2236 TECHNOLOGY IN THE HUMANITIES

MATH1213 INTRODUCTION TO STATISTICS (prerequisite MATH1114 and/or placement exam OR MATH1118)

**Semester 4**

ENGL1101 COLLEGE WRITING

CPTR2245 ENTERPRISE NETWORK TECHNOLOGIES (prerequisite CPTR2272)

CPTR2275 DATA ANALYTICS (prerequisites CPTR1106 and MATH1213)

CPTR2240 DATABASE ADMINISTRATION (prerequisites CPTR2260 and CPTR2272)

CAPSTONE PROJECT

Total program credits: 60