Course discipline/number/title: COMP 1731: Programming for the Internet

A. **CATALOG DESCRIPTION**
   1. **Credits: 3**
   2. **Hours/Week: 3 lecture**
   3. **Prerequisites (Course discipline/number):** MATH 0099
   4. **Other requirements:** College level reading is required.
   5. **MnTC Goals (if any):** NA

B. **COURSE DISCRIPTION:** This course introduces developing web applications. Students will explore HTML and CSS, forms, error checking and validation, server-side scripting, and database interaction. Students will construct and evaluate multiple web applications. College level reading is required.

C. **DATE LAST REVISED (Month, year):** December, 2019

D. **OUTLINE OF MAJOR CONTENT AREAS:**
   1. Fundamentals of the web
   2. Server-side generated HTML, CSS, and PHP
   3. HTML Form processing, error checking, and validation
   4. Database use and scripting

E. **LEARNING OUTCOMES (GENERAL):** The student will be able to:
   1. Develop web applications.
   2. Describe the principle of web scripting and database interaction.
   3. Build and utilize database tables.
   4. Perform server-side error checking and validation for graceful failure.

F. **LEARNING OUTCOMES (MNTC):** NA

G. **METHODS FOR EVALUATION OF STUDENT LEARNING:** Methods may include but are not limited to:
   1. Exams and Quizzes
   2. Presentations
   3. Projects
   4. Written Assignments

H. **RCTC CORE OUTCOME(S).** This course contributes to meeting the following RCTC Core Outcomes(s):
   Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.

I. **SPECIAL INFORMATION (if any):** None