

# N215

## Intermediate Multi-Device Web Development

Department of Human-Centered Computing  
Media Arts and Sciences Program  
Indiana University School of Informatics and Computing, Indianapolis  
Spring 2022

*Section No.:* 20440 *Credit Hours:* 3  
*Time:* Jan 11 – Apr 26, 2022  
*Location:* IT 257  
*First Class:* Jan 11, 2022

*Instructor:* Todd Shelton, MAS, Lecturer  
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*Prerequisites:* NEWM-N 115 or INFO I101

Note: This syllabus can change without notice. It is just a guideline.

Note: USE CANVAS AS YOUR GUIDE FOR ASSIGNMENTS AND THEIR DUE DATES. This syllabus can change without notice. The weekly schedule is a guideline for the course.

### COURSE DESCRIPTION

Study of the creation, publication, and management of documents, images, and other media types on the Web. Topics include Web publishing, asset preparation, document types, contemporary content management systems and their use in the organization. Hands-on experience with contemporary systems for content management.

### EXTENDED COURSE DESCRIPTION

This course is an introductory class into multimedia tools. You will not only learn to create a web site using several different tools, but you will also learn to analyze the way it should be created, and the overall usability of the site. This course will help you understand the concepts that are needed to create great websites.

### **Required For Online Class:**

You are required to use a webcam throughout online class meetings. You must be present and on-screen during the entire class. You may not engage in other activities such as working a job, attending another class, working out, driving, babysitting, or being occupied with anything else. This class is very demanding and requires your full attention. Unless you are on-screen throughout the class, attendance will not be counted.

### **Required Text(s):**

None

### **Equipment Needed:**

- A reliable laptop computer running Windows, Mac OS, or Linux operating system. Please visit <http://informatics.iupui.edu/technology/laptop> for information on the Laptop Initiative for Informatics majors.
- Webcam for online class only. (required) \$11.99  
[https://www.amazon.com/dp/B08915T9W3/ref=cm\\_sw\\_em\\_r\\_mt\\_dp\\_rJi9FbN5YF334](https://www.amazon.com/dp/B08915T9W3/ref=cm_sw_em_r_mt_dp_rJi9FbN5YF334)

### **Software used:**

Visual Studio (recommended) Code or any HTML Editor ( PHPStorm, WebStorm, Sublime Text), any other web page creator, GitHub Desktop, Github, Adobe XD

### **Teaching and Learning Methods**

The course structure is composed of these parts:

- Lectures / Lab:
  - This activity will be the majority of class time. Use of software packages to implement concepts and designs are key to understanding the principles that are taught in the lecture and practiced in the lab.
- Quizzes/Test:
  - Test and quizzes will be administered to assure you are grasping the concepts needed to complete the course and understand the learning outcomes for the class.
- Projects:
  - Weekly homework assignments will be assigned, these could be individual or group assignments.
  - Students **MUST** have their work completed weekly for credit in this class.
  - Communication through Canvas is a requirement and peer to peer communication is key for success.
  - Student must have a working laptop or have access to a working computer.

### **Learning Outcomes:**

Upon completion of this course, the student will	*RBT	IUPUI+	PLO's	Assessment
1. Structure and implement HTML/CSS.	2	P1.1, P1.4; P1.2;	1	Weekly Assignments
2. Implement basic web development practices.	3	P1.1; P2.1;	1	Weekly Assignments
3. Create visualizations in accordance with UI/UX theories.	6	P1.1; P3.2, P3.3	1	Weekly Assignments
4. Develop a fully functioning website and deploy it on a web server.	6,3	P1.1, P1.3, P1.4; P2.1; P3.4	1	Weekly Assignments, Milestones, Final Presentation
5. Implement basic JavaScript.	3	P2.1	3.1	Weekly Assignments

\*RBT: Revised Bloom's Taxonomy: 1. Remembering, 2. Understanding, 3. Applying, 4. Analyzing, 5. Evaluating, 6. Creating

<b>Media Arts and Science B.S. Program-level Learning Outcomes (PLOs)</b>	<b>†Profiles of Learning for Undergraduate Success (PLUS, IUPUI+)</b>
1. Understand digital media and its effective use as a form of communication.	<b>P1.1 Communicator</b> – Evaluates Information
2. Communicate ideas effectively in written, oral, and visual form to a range of audiences.	<b>P1.4 Communicator</b> – Conveys Ideas Effectively <b>P1.2 Communicator</b> – Listen Actively* <b>P3.2 Innovator</b> – Creates/Designs**
3. Work effectively as a member of a team to achieve a common goal.	<b>P2.2 Problem Solver</b> – Collaborates <b>P1.3 Communicator</b> – Builds Relationships*
4. Analyze a problem, identify and evaluate alternatives, and plan an appropriate solution.	<b>P2.1 Problem Solver</b> – Thinks Critically <b>P3.1 Innovator</b> – Investigates*
5. Evaluate media from multiple perspectives using the theories, concepts, and language of digital media with an appreciation for the history, theory, and traditions of digital media.	<b>P2.3 Problem Solver</b> – Analyzes, Synthesizes, and Evaluates
6. Demonstrate mastery of the concepts, techniques, and tools in one or more digital media specialties.	<b>P2.4 Problem Solver</b> – Perseveres <b>P3.2 Innovator</b> – Creates/Designs*

7. Develop professional quality digital media productions by promptly applying knowledge and skills including best practices and standards.	<b>P3.2 Innovator</b> – Creates/Designs <b>P3.3 Innovator</b> – Confronts Challenges*
8. Explain the impact of digital media on individuals, organizations, and society.	<b>P4.4 Community Contributor</b> – Anticipates Consequences <b>P4.1 Community Contributor</b> – Builds Community*
9. Acknowledge diverse opinions regarding professional, ethical, legal, and social issues with a global perspective.	<b>P4.3 Community Contributor</b> – Behaves Ethically <b>P4.2 Community Contributor</b> – Respectfully Engages Own and Other Cultures*
10. Plan for continuing professional development with an appreciation of the need for lifelong learning.	<b>P3.4 Innovator</b> – Makes Decisions

### Weekly Schedule:

#### WEEKLY SCHEDULE

Date	Class topic/activity, Reading and/or Assignment
Week 1	Introduction to class and setting up server & Visual Studio Code Quiz on HTML. <ul style="list-style-type: none"> <li>• Set up Visual Studio Code and show shortcuts.</li> <li>• Make initial project.</li> <li>• Setup FTP</li> <li>• Quiz Syllabus</li> </ul>
Week 2	Project structure, HTML page structure with HTML/CSS and Page Layout <ul style="list-style-type: none"> <li>• Homework over project structure</li> </ul>
Week 3	HTML page structure with HTML/CSS and Page Layout <ul style="list-style-type: none"> <li>• Quiz Project Structure</li> <li>• Homework Project structure advanced</li> </ul>
Week 4	Cover mockups. Adobe XD <ul style="list-style-type: none"> <li>• Homework Mockups XD</li> </ul>
Week 5	Cover project in XD <ul style="list-style-type: none"> <li>• Quiz XD</li> </ul>
Week 6	Home page from prototype <ul style="list-style-type: none"> <li>• Homework Home Page</li> </ul>
Week 7	About page from prototype

	• Homework About Page
Week 8	Gallery page from prototype • Homework Gallery
Week 9	Midterm
Week 10	Intro to jQuery
Week 11	Blog from prototype • Quiz jQuery • Homework Blog Page
Week 12	Contact page from prototype and final project • Homework Contact page • Discuss Final
Week 13	Dynamically change pages with jQuery • Work on Final
Week 14	Dynamic Web Pages with jQuery • Work on Final
Week 15	Final Project work lab
Week 16	Final Submission

### Grading Scale:

A+	100% +	Professional level work, showing highest level of achievement
A	93–99.99%	Extraordinarily high achievement, quality of work; shows command of the subject matter
A–	90–92.99%	Excellent and thorough knowledge of the subject matter
B+	87–89.99%	Above average understanding of material and quality of work
B	83–86.99%	Mastery and fulfillment of all course requirements; good, acceptable work
B–	80–82.99%	Satisfactory quality of work
C+	77–79.99%	Modestly acceptable performance and quality of work
C	73–76.99%	Minimally acceptable performance and quality of work
C–	70–72.99%	Unacceptable work (Core course must be repeated for credit)
D+	67–69.99%	Unacceptable work (Course must be repeated for credit)
D	63–66.99%	Unacceptable work
D–	60–62.99%	Unacceptable work
F	Below 60	Unacceptable work

Please note that the minimum grade for credit towards a major (both core and electives), minor, or certificate is a grade of C.

**Modules:**

All class instructions for the week will be located in the Module portion of Canvas. You can access this through the menu on the left-hand side of the Canvas class site. Modules will consist of everything that is covered during the week. You could see lecture notes, possible readings, quizzes, exams, homework assignments, and anything else that is expected of you for that week.

**Exams:**

There will be one midterm exam over the materials covered in the first half of the semester. The exam will consist of multiple choices, true/false, fill in the blank, and short answer/essay questions. It is designed to assess your mastery of important concepts and theories in great depth and breadth. Questions may be drawn from PPT slides, assigned video tutorials, class activities, and reading assignments, and lectures. There will be no written final exam.

**Quizzes:**

There are several quizzes given during the semester. A quiz usually covers the materials studied in the previous week. It may consist of multiple choices, true/false, and fill-in-blank questions. Quizzes are designed to assess your mastery of important concepts covered in lectures. Quizzes will usually be given during lab sessions. All quizzes will be given in Canvas.

**Homework assignments:**

All assignments are posted under the Assignment tab in Canvas. For security reasons, your assignment files should be uploaded to Canvas. As a last resort, and only if you are having trouble with the Assignments tab, you may send me an assignment through Canvas e-mail. When you need to turn in multiple files, please zip them together and only upload the zip file. Here is a summary of the course assignments:

1. **Reading:** Reading materials from various sources will be assigned for each study unit. Although they will not be collected and graded, they are critical to a student's success in this course.
2. **Lab exercises:** These exercises are designed to provide students with practical experience. They are built on walkthroughs and include variations to enhance independent learning. Some of the exercises provide detailed instructions; while others provide less detailed instructions and require you to apply the materials presented in class with less guidance.
3. **Final project:** This project will demonstrate the students' ability to build a complete website that is responsive to all media devices.

**EXPECTATIONS, GUIDELINES, AND POLICIES****Attendance:**

A basic requirement of this course is that you will participate in all class meetings, whether online or face-to-face, and conscientiously complete all required course activities and assignments. Class attendance is required for classroom-based courses. It entails being present and attentive for the entire class period. Attendance shall be taken in every class. If you do not sign the attendance sheet while in class, you shall be marked absent. Signing the attendance sheet for another student is prohibited. The instructor is required to submit to the Registrar a record of student attendance, and action shall be taken if the record conveys a trend of absenteeism.

Only the following are acceptable excuses for absences: death in the immediate family (e.g. mother, father, spouse, child, or sibling), hospitalization or serious illness; jury duty; court ordered summons; religious holiday; university/school coordinated athletic or scholastic activities; an unanticipated event that would cause attendance to result in substantial hardship to one's self or immediate family. Absences must be explained with the submission of appropriate documentation to the satisfaction of the instructor, who will decide whether missed work may be made up. Absences that do not satisfy the above criteria are considered unexcused. To protect your privacy, doctor's excuses should exclude the nature of the condition and focus instead on how the condition impacts your attendance and academic performance.

Missing class reduces your grade through the following grade reduction policy: You are allowed two excused or unexcused absences. Each additional absence, unless excused, results in a 5% reduction in your final course grade. More than six absences result in an F in the course. Missing class may also reduce your grade by eliminating opportunities for class participation. For all absences, the student is responsible for all covered materials and assignments.

**Incomplete:**

The instructor may assign an Incomplete (I) grade only if at least 75% of the required coursework has been completed at passing quality and holding you to previously established time limits would result in unjust hardship to you. All unfinished work must be completed by the date set by the instructor. Left unchanged, an Incomplete automatically becomes an F after one year. <http://registrar.iupui.edu/incomp.html>

**Deliverables:**

You are responsible for completing each deliverable (e.g., assignment, quiz) by its deadline and submitting it by the specified method. Deadlines are outlined in the syllabus or in supplementary documents accessible through Canvas. Should you miss a class, you are still responsible for completing the deliverable and for finding out what was covered in class, including any new or modified deliverable. In fairness to the instructor and students who completed their work on time, a grade on a deliverable that is submitted late shall be given the grade of a 0. No late submissions are accepted unless you have an excused absence which is outlined in the Attendance section or on a case by case bases.

**NOTE: The outcomes and artifacts developed for any one class in Media Arts and Sciences at IUPUI cannot be the same or overly similar between semesters or in the**

same semester for one student or group of students or one faculty or group of faculty. The project must be differentiated, the expectations for the project outlined, and the faculty involved, notified and in agreement prior to the semester beginning.

## **POLICIES CONCERNING ASSIGNMENT/PROJECT DEADLINES**

- **NO LATE PROJECTS WILL BE ACCEPTED.**
- **Any project will be assigned a score of 0 (zero) points if not turned in by the stated project deadline.**
- Please check Canvas assignments to determine when your project is due. It is your responsibility to understand due dates.
- Please check Canvas assignments to determine the proper way to turn in the project due. **All** projects will be turned in through the assignment tab on Canvas.
- Midterm and Final exams/presentations will only be administered during set class times. A score of 0 (zero) points will be assessed on any exams not taken during class.
- In class quizzes that are missed will be scored a zero and no make up quizzes will be administered.

## **OTHER CONSIDERATIONS**

- Please come to class on time and be prepared to start on time.
- Participation in class discussions, including class critiques and any written papers or critiques are required and will be considered in final grading.
- All electronic devices should be turned off and not used during the entirety of class time.
- Social sites such as Facebook, Twitter, or any others, may not be accessed during class time.
- **Work for other courses may not be done during this class time.**
- If you need to leave class early, please inform the instructor in advance.
- **Food is strictly forbidden** in the computer labs.
- The outcomes and artifacts developed for any one class in Media Arts and Sciences at IUPUI cannot be the same or overly similar between semesters or in the same semester for one student or group of students or one faculty or group of faculty. The project must be differentiated, the expectations for the project outlined, and the faculty involved, notified and in agreement prior to the semester beginning. In other words, all projects must be unique and may not be used from one class to another without instructor permission. This is also listed above in the deliverables section.

## **CODE OF CONDUCT**



All students should aspire to the highest standards of academic integrity. Using another student's work on an assignment, cheating on a test, not quoting or citing references correctly, or any other form of dishonesty or plagiarism shall result in a grade of zero on the item and possibly an F in the course. Incidences of academic misconduct shall be referred to the Department Chair and repeated violations shall result in dismissal from the program.

All students are responsible for reading, understanding, and applying the *Code of Student Rights, Responsibilities and Conduct* and in particular the section on academic misconduct. Refer to *The Code > Responsibilities > Academic Misconduct* at <http://www.indiana.edu/~code/>. All students must also successfully complete the Indiana University Department of Education "How to Recognize Plagiarism" Tutorial and Test. <https://www.indiana.edu/~istd> You must document the difference between your writing and that of others. Use quotation marks in addition to a citation, page number, and reference whenever writing someone else's words (e.g., following the *Publication Manual of the American Psychological Association*). To detect plagiarism instructors apply a range of methods, including Turnitin.com. <http://www.ulib.iupui.edu/libinfo/turnitin>

### **Academic Misconduct:**

1. **Cheating:** <sup>[L]</sup><sub>SEP</sub> Cheating is considered to be an attempt to use or provide unauthorized assistance, materials, information, or study aids in any form and in any academic exercise or environment.
  - a. A student must not use external assistance on any "in-class" or "take-home" examination, unless the instructor specifically has authorized external assistance. This prohibition includes, but is not limited to, the use of tutors, books, notes, calculators, computers, and wireless communication devices.
  - b. A student must not use another person as a substitute in the taking of an examination or quiz, nor allow other persons to conduct research or to prepare work, without advanced authorization from the instructor to whom the work is being submitted.
  - c. A student must not use materials from a commercial term paper company, files of papers prepared by other persons, or submit documents found on the Internet.
  - d. A student must not collaborate with other persons on a particular project and submit a copy of a written report that is represented explicitly or implicitly as the student's individual work.
  - e. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.
  - f. A student must not steal examinations or other course materials, including but not limited to, physical copies and photographic or electronic images.
  - g. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor or program to whom the work is being submitted.
  - h. A student must not, without authorization, alter a grade or score in any way, nor alter answers on a returned exam or assignment for credit.
2. **Fabrication:** A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citation

to the sources of information.

3. **Plagiarism:** Plagiarism is defined as presenting someone else's work, including the work of other students, as one's own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged, unless the information is common knowledge. What is considered "common knowledge" may differ from course to course.
  - a. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures of another person without acknowledgment.
  - b. A student must give credit to the originality of others and acknowledge indebtedness whenever:
    1. directly quoting another person's actual words, whether oral or written;
    2. using another person's ideas, opinions, or theories;
    3. paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
    4. borrowing facts, statistics, or illustrative material; or
    5. offering materials assembled or collected by others in the form of projects or collections without acknowledgment
4. **Interference:** A student must not steal, change, destroy, or impede another student's work, nor should the student unjustly attempt, through a bribe, a promise of favors or threats, to affect any student's grade or the evaluation of academic performance. Impeding another student's work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.
5. **Violation of Course Rules:** A student must not violate course rules established by a department, the course syllabus, verbal or written instructions, or the course materials that are rationally related to the content of the course or to the enhancement of the learning process in the course.
6. **Facilitating Academic Dishonesty:** A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct, nor allow another student to use his or her work or resources to commit an act of misconduct.

## OTHER POLICIES

1. **Administrative withdrawal:** A basic requirement of this course is that students participate in all class discussions and conscientiously complete all required course activities and/or assignments. If a student is unable to attend, participate in, or complete an assignment on time, it is the student's responsibility to inform the instructor. If a student misses more than half of the required activities within the first 25% of the course without contacting the instructor, the student may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and a student who has been administratively withdrawn from a course is ineligible for a tuition refund. Contact the instructor with questions concerning administrative withdrawal.
2. **Civility:** To maintain an effective and inclusive learning environment, it is important to be an attentive and respectful participant in lectures, discussions, group work, and other

classroom exercises. Thus, unnecessary disruptions should be avoided, such as ringing cell phones, engagement in private conversations, and other unrelated activities. Cell phones, media players, or any noisy devices should be turned off during a class. Texting, surfing the Internet, and posting to Facebook or Twitter during class are generally not permitted. Laptop use may be permitted if it is used for taking notes or conducting class activities. Students should check with the instructor about permissible devices in class. IUPUI nurtures and promotes “a campus climate that seeks, values, and cultivates diversity in all of its forms and that provides conditions necessary for all campus community members to feel welcomed, supported, included, and valued” (IUPUI Strategic Initiative 9). IUPUI prohibits “discrimination against anyone for reasons of race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or veteran status” (Office of Equal Opportunity). Profanity or derogatory comments about the instructor, fellow students, invited speakers or other classroom visitors, or any members of the campus community shall not be tolerated. A violation of this rule shall result in a warning and, if the offense continues, possible disciplinary action.

3. **Communication:** For classroom-based courses, the instructor or teaching assistant should respond to emails by the end of the next class or, for online courses, within two Indiana University working days, which excludes weekends and holidays. The instructor should provide weekly office hours or accept appointments for face-to-face, telephone, or teleconferenced meetings, and announce periods of extended absence in advance.
4. **Counseling and Psychological Services (CAPS):** Students seeking counseling or other psychological services should contact the CAPS office by phone at 274-2548 or email at [capsindy@iupui.edu](mailto:capsindy@iupui.edu). For more information visit <http://life.iupui.edu/caps/>.
5. **Course evaluations:** Course evaluations provide vital information for improving the quality of courses and programs. Students are urged to complete one course and instructor evaluation for each section in which they are enrolled at the School of Informatics and Computing with the following three exceptions: (a) The student has withdrawn from the course; (b) fewer than five students are enrolled in the section (in which case maintaining anonymity is difficult); and (c) the section is a laboratory that must be taken with a course having a different section number. Course evaluations are completed at <https://soic.iupui.edu/app/course-eval/>. Course evaluations are typically open from the eleventh week. Course evaluations are anonymous, which means that no one can view the name of the student completing the evaluation. In addition, no one can view the evaluation itself until after the instructor has submitted the final grades for the course. In small sections, demographic information should be left blank, if it could be used to identify the student.
6. **Disabilities policy:** In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of accommodations needed for the course. Students requiring accommodations because of a disability must register with Adaptive Educational Services (AES) and complete the appropriate AES-issued before receiving accommodations. The AES office is located at UC 100, Taylor Hall (Email: [aes@iupui.edu](mailto:aes@iupui.edu), Tel. 317 274-3241). Visit <http://aes.iupui.edu> for more information.

7. **Email:** Indiana University uses your IU email account as an official means of communication, and students should check it daily for pertinent information. Although you may have your IU email forwarded to an outside email account, please email faculty and staff from your IU email account.
8. **Emergency preparedness:** Safety on campus is everyone's responsibility. Know what to do in an emergency so that you can protect yourself and others. For specific information, visit the emergency management website. <http://protect.iu.edu/emergency>
9. **IUPUI course policies:** A number of campus policies governing IUPUI courses may be found at the following link: [http://registrar.iupui.edu/course\\_policies.html](http://registrar.iupui.edu/course_policies.html)
10. **No class attendance without official enrollment.** Only those who are officially enrolled in this course may attend class unless they are enrolled as an auditor or making up an Incomplete by prior arrangement with the instructor. This policy does not apply to those assisting a student with a documented disability, serving in an instructional role, or administrative personnel. <http://registrar.iupui.edu/official-enrollment-class-attendance.html> Children may *not* attend class with their parents, guardians, or childcare providers.
11. **Religious holidays:** Students seeking accommodation for religious observances must submit a request form to the course instructor by the end of the second week of the semester. For information visit <http://registrar.iupui.edu/religious.html>.
12. **Right to revise:** The instructor reserves the right to make changes to this syllabus as necessary and, in such an event, will notify students of the changes immediately.
13. **Sexual misconduct:** IU does not tolerate sexual harassment or violence. For more information and resources, visit <http://stopsexualviolence.iu.edu/>.
14. **Student advocate:** The Student Advocate provides assistance to students with personal, financial, and academic issues. The Student Advocate Office is located in the Campus Center, Suite 350. The Student Advocate may also be contacted by phone at 317 274-4431 or by email at [studvoc@iupui.edu](mailto:studvoc@iupui.edu). For more information visit <http://studentaffairs.iupui.edu/advocate>.

## MISSION STATEMENT

The Mission of IUPUI is to provide for its constituents excellence in

- Teaching and Learning;
- Research, Scholarship, and Creative Activity; and
- Civic Engagement.

With each of these core activities characterized by

- Collaboration within and across disciplines and with the community;
- A commitment to ensuring diversity; and
- Pursuit of best practices.

IUPUI's mission is derived from and aligned with the principal components—Communities of Learning, Responsibilities of Excellence, Accountability and Best Practices—of Indiana University's Strategic Directions Charter.

## **STATEMENT OF VALUES**

IUPUI values the commitment of students to learning; of faculty to the highest standards of teaching, scholarship, and service; and of staff to the highest standards of service. IUPUI recognizes students as partners in learning. IUPUI values the opportunities afforded by its location in Indiana's capital city and is committed to serving the needs of its community. Thus, IUPUI students, faculty, and staff are involved in the community, both to provide educational programs and patient care and to apply learning to community needs through service. As a leader in fostering collaborative relationships, IUPUI values collegiality, cooperation, creativity, innovation, and entrepreneurship as well as honesty, integrity, and support for open inquiry and dissemination of findings. IUPUI is committed to the personal and professional development of its students, faculty, and staff and to continuous improvement of its programs and services.