Assessment of Student Learning Plan (ASLP): Academic Programs

2014-15 Academic Year

According to the NEASC accreditation commission, our campus must show that we are engaged in a comprehensive and systematic approach to program review and the assessment of student learning across all academic programs. To comply with these national assessment standards, every academic department/program is being asked to document how they assess student learning in their program, and how they are using the results for improvement.

Please review your assessment process during this past academic year (2014-15), and complete this form the best way you can, then send to the Office of Academic Assessment.

**This completed ASLP will become a component of your department's Program Review process and may also be utilized as part of your department's Core course assessment work.*

The information will be reviewed by USM's Assessment Committee, and placed into the Campus-wide Assessment Report for accreditation purposes.

** Please return form by intercampus mail or email to: Susan King, Office of Academic Assessment, Rm 628 Law Bldg, Portland campus. (Email) susank@usm.maine.edu (Phone) 780-4681*

Due: May 29, 2015

A. College, Department/Program, Date

College	CSTH
Department/Program	Technology
Date	*5/29/2015*

B. Contact Person for the Assessment Plan

Name and title *Dave Early, Chair, Department of Technology*

C. Degree Program

Name of Degree Program B.S. Technology Management

D. Assessment of Student Learning in Your Program

Step 1: Identify Student Learning Outcomes ***(What are students able to do by the end of your program?)***

a. *List 3-5 of the most important student learning outcomes for your program.*

The Technology Management: The Technology Management degree and all of its concentrations draw from a common set of educational outcomes, and in addition, each option within the degree has unique outcomes consistent with the focus of the concentration. The general outcomes have been continuously reviewed and modified as needed over the years. The outcomes have been reviewed and updated through a series of faculty and advisory board meetings. The following represents the current outcomes approved by the Department of Technology faculty and validated by the Department's advisory board and alumni. The ten outcomes identified and validated serve as a foundation toward identifying specific and measurable program and concentration specific competencies.

● Communications - A graduate will have an understanding of and the skills to effectively communicate verbally, in writing, and graphically.
● Quantitative methods - A graduate will understand and be able to use and apply principles of mathematics and at statistics, algebra, pre-calculus, and applied calculus level.
● Scientific principles and methods - A graduate will understand and have the skills necessary to use and apply scientific methodology and analytic techniques related to their major and concentration.
● Business and economics - A graduate will understand business and economic principles that apply to organizations in today's global economy.
● Management and supervision - A graduate will understand modern management and supervisory principles and practices, be able to effectively function in teams, and be an effective leader and manager.
● Professional and personal development and responsibility - A graduate will have a strong educational foundation that prepares them to be a world-minded, intentional, life-long learner and practitioner; including a liberal arts foundation anchored in the humanities, arts, and sciences consistent with the educational mission and purpose of the University, their personal role and responsibilities as an individual, and will perform at an ethical professional level while completing their responsibilities.
● Technological principles and systems - A graduate will have an understanding of the technology and operation of technical systems related to their technical / occupational concentration.

● Careers and best practices - A graduate will be able to identify careers and best practices in developing and/or delivering information on technological artifacts and processes and apply them in a context of their interrelationships, responsibilities, and demands as technology professionals.
● Creativity - A graduate will be able to develop and explore methods for approaching a problem or a challenge in an imaginative and innovative way. Innovation is the application of better solutions that meet new requirements, unarticulated needs, or existing market needs. This is accomplished through more effective products, processes, services, technologies, or ideas.

b. *Then, identify which student learning outcomes were assessed this past academic year.* *(One or more of the outcomes and corresponding assessment plans could come from your department's CORE Course Blueprint(s).*

Examples of Student Learning Outcome Statements:

1. Students will be able to demonstrate the varieties of historical scholarship dealing with societies throughout the world.
2. Students will be able to analyze a novel, short story, poem, or a significant piece of prose showing familiarity with the literary contexts of the particular genre being examined.
3. Students will demonstrate their understanding of the local, global, international, and intercultural issues related to internal and external marketing strategies.

The Technology Management program enjoys broad acceptance of its programs by both internal and external groups. Internally, faculty in the program are active at the University level and consistently serve on numerous committees and participate in a variety of University-wide activities. The Technology Management program and its faculty are known and recognized by the campus community. . The Department also recently obtained Board of Trustee approval for a new degree program in Information Technology, which during these times of very limited resources is a strong endorsement of the Department and its programs.

Feedback from graduates and employers as evidenced by initial placement, career advancement, and indicators of satisfaction by program graduates, indicates the program has broad acceptance outside of the University.

Follow up studies and feedback from internship and cooperative education sites reveal that students have been successful, with employers favorably rating their performance and competence.

The delivery of the Technology Management degree program at the Portsmouth Naval Shipyard in Kittery is evidence of the programs acceptance. In October of 2004, the University of Southern Maine signed a memorandum of understanding regarding delivery of educational programs. Under the agreement, faculty of the Department of Technology delivers two courses per semester on site in Kittery as part of the Naval Seas Systems Command (NAVSEA), the Naval Shipyard's Civilian Leadership Development Program (CLDP). After acceptance by Command University, students apply to the University of Southern Maine for acceptance in our Bachelor of Science degree in Technology Management with a concentration in Industrial Technology.

The ship yard has used the Technology Management degree program as a key component in its educational program for many years. The yard has over 4,600 civilian employees and operates an ongoing educational program. Currently there are 61 shipyard employees who are enrolled in the Department of Technology degree programs.

Another indication of program acceptance is reflected in the activities of the program's faculty. The expertise of the faculty and the programmatic offerings has resulted in many faculty being sought for consulting, training, or similar activities.

Competency identification and validation is confirmed through endorsement of the Department advisory boardconsisting of representatives of local industries, align with the program concentrations.

Core general outcomes and competencies were reviewed by the advisory board and feedback was provided.Following the input from the board, the group formally endorsed the core competencies.

After the advisory board completed the validation of the competencies, the process of validation continued withDepartment alumni. A survey was developed and authorized through USM's Office of Academic Assessment. The survey requested that alumni review the outcomes and competency documents that are posted on the Department's website.

Step 2: How and When were the Learning Outcomes assessed?

a. *Briefly describe the assessment tools, measures, or forms of evidence that were utilized to demonstrate students' accomplishment of the learning outcomes selected.*

Examples of direct measures (graded by using a rubric): comprehensive exams, performance tests, papers or essays, case studies, collection of student work/portfolios, presentations or exhibits, individual or group projects, research studies, internships/practicum, etc.
Examples of indirect measures: surveys or questionnaires, or documentation of focus groups, interviews, perceptions of advising or departmental services, and tracking performance or grade studies.

Competency map

The table following the course list below presents the validated outcomes and competencies for the overall degree and the concentrations and lists the courses that directly contribute to the competencies as well as the assessment methods used.

ITC 100 Introduction to Construction Management	ITT 231 Technical Visualization
ITC 341 Construction Documents & Specifications	ITT 241 Information and Comm Technologies
ITC 351 Construction Cost Estimating	ITT 270 Introduction to Computer Hardware
ITC 432 Construction Project Management	ITT 272 Intro to Computer Networking
ITC 442 Construction Jobsite Management	ITT 281 Internet Web Site Development
ITP 210 Technical Writing	ITT 282 Computer Aided Design
ITP 230 Project Management	ITT 311 Telecommunications
ITP 250 Management Information Systems	ITT 323 Fluid Power
ITP 280 Industrial Org, Manage, & Supervision	ITT 342 Digital Publishing Technologies
ITP 310 Facility Planning	ITT 343 Graphic Communications Technologies
ITP 330 Production Control	ITT 344 Digital Video and Animation Technologies
ITP 340 Fundamentals of Quality	ITT 373 Intermediate Computer Networking
ITP 350 Teambuilding and Facilitation	ITT 376 Network Security and Ethics
ITP 381 Human Resource Development	ITT 377 Networking for Video and Multimedia
ITP 410 Technical Operations and Strategies	ITT 382 Advanced Web Site Development
ITP 490 Cost Analysis and Control	ITT 384 Advanced Computer-Aided Design
ITS 320 Occupational Safety and Health	ITT 425 Applied Process Control Engineering
ITS 300 Ergonomics/Time Study	ITT 427 Applied Automation Engineering
ACC 110 Financial Accounting	ITT 440 Internship
ITT 181 Computer Applications & Concepts	ITT 444 Digital Imaging Technologies
ITT 221 Power and Energy Processing	ITT 460 Capstone
	STH 440 Internship

The following letters indicate the form of evaluation methods used to assess the achievement of the competencies found in the following course map :

Exams = E Midterm exam = ME
Final Exam = FE Quiz = Q
Written assignment = WA
Oral assignment = OA

Project evaluation = PE

Outcomes and Competencies	Courses	Assessment
1. Communications: A graduate will have an understanding of and the skills to effectively communicate verbally, in writing, and graphically.		
1.1. Be skilled in written communications, including basic writing skills, and the design and preparation of a variety of document types.	ITP210 ITP230 ITC100 ITC432 ITT281 ITT460 ITT181 ITP350	E,FE,Q, WA,PE
1.2. Be skilled in verbal communication, including interpersonal communications, and active listening, presentation preparation and delivery.	 ITP350 ITT460	PE Q, WA, OA, FE
1.3 Understand and have skill in the use of electronic-based communications, including e-mail, management information systems, and digital media generation and presentation.	ITT181 ITT382 ITP250 ITT241 ITT343 ITT272 ITT373 ITT377	PE Q, WA, OA, FE
1.4. Understand and have skill in group communications, including conference planning and team processes.	ITP230 ITP350	Q, WA, OA, FE, PE
2. Quantitative methods: A graduate will understand and be able to use and apply principles of mathematics and at a statistics, algebra, pre-calculus, and applied calculus level.		
1.2. Understand and be able to apply mathematics at an algebra, pre-calculus, and applied calculus level.	ITP 330 MAT140 Mat148 ITP490; ITC351 ITC432	PE Q, WA, OA, FE
1.3. Understand and be able to use statistics related to the industrial applications.	MAT120 ITP330 ITT373	PE Q, WA, OA, FE
1.4. Have skill in the use of computer applications that support quantitative analysis and data presentation.	ITC351 ITC432 ITT181 ITT282 ITT272	PE Q, WA, OA, FE
3. Scientific principles and methods: A graduate will understand and have the skills necessary to use and apply scientific methodology and analytic techniques related to their major and concentration.		
3.1 Understand the nature of science and scientific inquiry.	PHY	

3.2. Understand and be able to use principles of the physical sciences	ITC100 ITC432 ITT270 ITT323	Q, ME, FE, PE, WA
4. Business and economics: A graduate will understand business and economic principles that apply to organizations in today's global economy.		
4.1 Understand how economies operate at the macro and/or micro levels.	Economics	
4.2 Understand how economic policy impacts industrial operations.	ITC442	Q
4.3 Understand how financial resources are tracked, monitored, and controlled via appropriate accounting systems and how the allocation of financial resources impacts industrial operations.	ITP230 ITC432 ITP330	ME,FE, PE
4.4 Be able to analyze and control costs associated with industrial operations.	ITC432 ITP330	Q, ME,FE, PE
5. Management and supervision: A graduate will understand modern management and supervisory principles and practices, be able to effectively function in teams, and be an effective leader and manager.		
5.1 Understand and effectively work in cross-functional teams.	ITC100 ITC341 ITC432 ITC442 ITP230 ITP350 STH440	Q, WA, OA, FE, PE
5.2 Understand and use appropriate leadership/supervision styles and techniques in various forms of industrial organization.	ITP230 ITC432 ITC432 ITP350 STH440	Q, WA, OA, FE, PE
5.3 Analyze contemporary industrial systems and use appropriate strategies to improve the quality of the working environment.	ITS300 ITP350	Q, WA, OA, FE, PE
5.4 Understand the strategies and tools to effectively layout/organize facilities, and manage the flow/handling of materials.	ITS300 ITP 310	FE,PE,WA
5.5 Understand and be able to apply contemporary techniques and tools of project management.	ITP230 ITT460	PE
5.6 Understand the structure and use of management information systems as applied to industrial operations.	ITP250	
5.7 Understand and be able to apply human resource management functions integral to management within an organization.	ITP230 ITP381	WA, Q
6. Safety and health: A graduate will understand of the ethical, legal, and technical aspects of creating and maintaining a healthy and safe environment, including regulatory requirements.		
6.1. Understand the safety, health, and ergonomic factors that constitute a safe and a healthy and productive environment.	ITS300 ITS320	
6.2. Understand laws and regulations which govern safety and health of employers and the workplace.	ITS320 ITC100 ITC442	

7. Professional and personal development and responsibility: A graduate will have a strong educational foundation that prepares them to be a world-minded, intentional, life-long learner and practitioner; including a liberal arts foundation anchored in the humanities, arts, and sciences consistent with the educational mission and purpose of the University, their personal role and responsibilities as an individual, and will perform at an ethical professional level while completing their responsibilities.		
7.1 A graduate should possess a liberal arts foundation anchored in the humanities, arts, and sciences consistent with the educational mission and purpose of the University.	Core Curriculum	
7.2 A graduate should possess a level of understanding, skill, and attitude relating to the role, function, and responsibility of individuals and organizations within the context of a global community.	Diversity course	
7.3 A graduate should possess a level of understanding and attitude regarding the ethical, social, and legal responsibilities of organizations and individuals.	Ethical Inquiry STH440	PE,WA
7.4 A graduate should perform at a professional level while completing their responsibilities.	STH440	PE,WA
8. Technological principles and systems: (For concentration specific, outcomes & competencies, see the sections for each concentration). A graduate will have an understanding of the technology and operation of technical systems related to their technical / occupational concentration.		
8.1. Understand aspects of product, project, or service life cycles, including design, testing, development, production/construction, distribution, operation, maintenance, recycling and disposal. This competence includes an understanding of the relationship and interdependence of the components.	ITC341 ITT281 ITT382 ITT272 ITT425	Q,PE,WA
8.2 Understand technical systems that are part of contemporary production, construction, or service operations.	ITC100 ITC351 ITC432 ITT323	Q, ME, FE
8.3 Understand and possess skills relating to the application and use of computer systems and components.	ITT181 ITC351 ITC432 ITT281 ITT382 ITT373 ITT425 ITT427	Q,PE,WA,PE
9. Careers and best practices: A graduate will be able to identify careers and best practices in developing and/or delivering information on technological artifacts and processes and apply them in a context of their interrelationships, responsibilities, and demands as technology professionals.		
9.1 Capable of Identifying and exploring career opportunities in their concentration areas	ITC100 ITC442	Q,ME,WA,FE
9.2 Capable of identifying, developing and utilizing best practices their concentration areas	ITT425 ITT429 ITT323 ITT221	PE,WA,FE

10. Creativity: A graduate will be able to develop and explore methods for approaching a problem or a challenge in an imaginative and innovative way. Innovation is the application of better solutions that meet new requirements, unarticulated needs, or existing market needs. This is accomplished through more effective products, processes, services, technologies, or ideas.		
10.1 Able to develop and explore creative and innovative methods for problem solving in their concentration area	ITT425	PE,OA,FE
10.2 Capable of creating and producing new products, processes, services, technologies, or ideas in their concentration area	ITT427 ITP230	PE,OA,FE

To Contents

Concentration specific outcomes and competencies:

Outcomes and Competencies	Courses	Assessment
Construction management		
Students will have an understanding of theories and applications of construction contract administration, including: planning, managing, directing, organizing, and controlling construction operations.		
1.1 Possess the skill and ability to understand and interpret construction documents.	ITC341 ITC100 ITC351 ITC432 ITC442	Q, ME, FE
1.2 Have an understanding of the various components of the Construction Management process.	ITC100 ITC432 ITC442	Q, ME, FE
1.3 Have an understanding of the many functional relationships, roles, and responsibilities between the stakeholders and participants involved with the construction process.	ITC 100 ITC341 ITC432 ITC442	Q, ME, FE
1.4 Have an understanding of and the skill to use a variety of the physical (tools, equipment, and materials), financial, and computing-based resources used to support CM operations.	ITC432 ITC100 ITT282	Q, ME, FE, PE
1.5 Have an understanding of and appreciation of the value and importance of how construction documents define the rights, responsibilities, and relationships, among all the parties that are necessary for the successful completion of any construction project. How the architect/engineer (A/E), the contractor(s) and all the other project participants must work within guidelines for successful project conception, design, and construction and the importance of standardized construction document format.	ITC-341 ITC442	Q, ME, FE
1.6 Have an understanding of and appreciation of construction project administration and management, including communications, engineering concepts, management concepts, materials, methods, planning, scheduling, sequencing, procurement, crew distribution, project modeling and visualization.	ITC432 ITC442 ITC100	Q, ME, FE

1.7 Have understanding and appreciation of the material properties of soils, concrete, masonry, steel, and lumber, excavation, compaction, column, beam, and slab schedules, shoring systems, construction economics and of construction geometrics and construction safety.	ITC432	Q, ME, FE
1.8 Have an understanding and skill to estimate the costs of various construction activities and the application of primary concepts used in the analysis and control of costs pertaining to planning, development, and managing construction operations.	ITC351	Q, ME, FE, PE

Information and Communications Technology		
1. A graduate will have an understanding of and be able to use computer technology and systems.		
1.1 Have an understanding of computer components, operating systems, basic software application and content creation proficiency.	ITT181 ITT281 ITT382 ITT241 ITT343 ITT231 ITT270 ITT425	Q,PE WA, OA, FE
1.2 Have an understanding of telecommunications' hardware and software applications, data transmission, networks and system parameters including conventional and contemporary components of data transfer and signal modifications over networks	ITT241 ITT311 ITT373	Q, WA, OA, FE, PE
1.3 Have an understanding of the construction, design and maintenance of large and small computer networks with a focus on structure, hardware, software, security, and protocols of contemporary systems.	ITT373 ITT376 ITT377	Q, PE
2. A graduate will have an understanding of and appreciation of the diversity of socio-economic issues, adoption theories and legal and ethical impacts of information and communication technologies, equipment, and resources for the design of artifacts and digital documents.		
2.1 Have an appreciation of theories, and legal and ethical impacts of information and communication technologies.	ITT281 ITT241 ITT272 ITT376	Q,PE Q, WA, OA, FE, PE
2.2 Have an understanding of equipment and resources for the design of artifacts and digital documents.	ITT181 ITT281 ITT231 ITT241 ITT343	PE Q, WA, OA, FE, PE
3. A graduate should possess an understanding of and skill in the use of a variety of computer applications.		
3.1. Have an understanding of the design, development, and maintenance of Internet web sites including the fundamentals of code, servers, and software for creating web content.	ITT281 ITT382	PE

3.2. Have an understanding of computer-aided design (CAD) systems including hardware and software applications; proficiency in the fundamentals of 2D and 3D technical graphics	ITT231 ITT282	Q, WA, OA, FE, PE
3.3. Have an understanding of conventional and contemporary digital graphic communication creation technologies with a focus on digital workflows, equipment, and materials for the design of artifacts and digital documents	ITT241 ITT343	Q, WA, OA, FE, PE
3.4. Have an understanding of the contemporary design and development of dynamic websites including web standards, server-side programming, databases, and digital image manipulation.	ITT382	PE

Electro mechanical:		
1. A graduate will possess a level of understanding, skill, and attitude relating to the technology and operation of technical electro-mechanical power and control systems. This includes concepts related to prime movers, energy conversion and power transmission systems, applied process control engineering, and automation.		
1.1 Understand the process used by modern day prime movers to supply usable power as an output.	ITT221	WA,FE,PE
1.2 Understand and identify the primary components utilized in power transmission.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
1.3 Understand and identify the primary components utilized in modern day control systems.productive environment.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
1.4 Understand how power systems and applied control systems are interfaced to automate a process.	ITT425 ITT427	FE,PE
2. A graduate will understand aspects of power and energy generation related to electro-mechanical systems, including energy sources, power transference, system maintenance, and automated control. This competence includes an understanding of the relationship and interdependence of the components.		
2.1 Understand the importance of ensuring that all codes and safety protocols related to electro-mechanical equipment are in-place and utilized correctly.	ITT221 ITT323	FE,PE
2.2 Understand the essential nature of equipment maintenance and documentation.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
2.3 Understand the common inputs and outputs of modern equipment controls.	ITT425	WA,FE,PE
2.4 Understand the differences between open and closed loop control systems and relate the advantages / disadvantages of both.	ITT425 ITT427	WA,FE,PE
3. A graduate will understand technical electro-mechanical power conversion systems as related to contemporary production, distribution, construction, transportation, environmental control, and military systems.		

3.1 Understand the theory and concepts used in the transmission of electrical, mechanical, hydraulic, and pneumatic power systems utilized on manual and automate equipment.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
3.2 Understand and have skill in the application and use of components and devices used in the transmission of electrical, mechanical, hydraulic, and pneumatic power systems utilized on manual and automate equipment.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
3.3 Understand contemporary strategies used to improve and maintain efficient and effective power conversion systems.	ITT221 ITT323 ITT425 ITT427	WA,FE,PE
4. A graduate will understand technical electro-mechanical control systems as related to contemporary production, distribution, construction, transportation, environmental control, military systems, and others.		
4.1 Understand the systematic process used to develop computer logic needed to automate equipment-operating specifications.	ITT425 ITT427	WA,FE,PE
4.2 Understand and have skill in the application and use of closed-loop feedback control systems and components utilized in modern equipment.	ITT425 ITT427	WA,FE,PE
4.3 Understand contemporary strategies used to improve and maintain efficient and effective process control automation systems.	ITT425 ITT427	WA,FE,PE

b. *Briefly describe when and how you implemented the assessment activity.*

Example: Outcome 1 was measured during the fall semester -- all majors completed a problem-solving case study during the ___course. Case studies were graded on a rubric.
Example: Outcome 2 was measured during the spring semester -- all majors in the capstone course completed a research project. Research projects will be reviewed and graded by a group of faculty.

Step 3: Process of Using the Assessment results to Improve Student Learning

a. *Briefly describe your unit's process of reviewing the program assessment results, and how you expect to improve student learning.*

Examples of improvements:

1) Improve the assessment plan; such as, revise student learning outcome(s), change the assessment method or measure, change the time-table for assessing the outcome, review the grading rubric, etc.

2) Improve an academic process; such as, frequency of courses offered, personnel related changes, a technology related improvement, revise departmental advising, implement a faculty training session.

3) Improve curriculum; such as, enforce prerequisites, change sequence of courses, review or revise course content, change where the outcomes are being assessed, revise proficiencies or development of new rubrics, etc.

The department uses a variety of methods for validating the outcomes of its concentrations and courses, including subject matter experts, approved "bodies of knowledge" from leading associations in the various concentration areas, input from supervisors working with students in internships, feedback from graduates, and the advisory boards.

External experts

The external expert foundation for the outcomes and competencies has been drawn from a wide variety of authoritative sources including: recognized texts, professional associations, professional handbooks, "Bodies of Knowledge", and continuing education by the faculty. For example, the competencies and content of ITP 330 Production Control is based on the Production and Inventory Control Handbook and the models and terminology used by the American Production and Inventory Control Society. The competencies and content of ITP 230 Project Management is based on the models in the Project Management Institute Body of Knowledge and uses texts that draw from that model. The competencies and content of ITT 281 WebSite Development is based on the standards of the World Wide Web Consortium (W3C) that is the international standards organization for the Web. Similar sources are the basis for the other program courses and are reflected the course syllabi and content.

Advisory Board

The Department of Technology advisory board which is organized to represent each of the concentrations in the degree program (Advisory Bd members) met on October 28, and May 21, 2014 to review the outcomes and competencies. Following that meeting, the outcomes and competencies were edited to reflect the discussion and several sections were revised based on their recommendations. The outcome and competency statements were also revised to conform to the format required by the most recent ATMAE accreditation guidelines.

Graduates

The Technology Management program uses Alumni surveys as part of the the process of validating competencies and outcomes. In the most recent survey (2014); Alumni were instructed to review documents posted on the Department website that covered both the general outcomes and competencies, and concentration specific outcomes and competencies. When asked, do you agree with the general outcomes and competences published Technology Department website: 92% indicated "Yes, I

agree with the general outcomes and competences, while 8% did not agree. When asked, do you agree with the outcomes and competences published on the Technology Department website for your concentration area: 100% stated, "Yes, I agree with the outcomes and competences stated in the document for my concentration area." No other comments were provided regarding the validation of TM and concentration specific competencies.

E. Other Course Assessment Activities:

If your department/program is unable to complete any of the above steps, are you able to report any assessment-related activities at the Course-Level; for example: created grading rubrics to use in required courses, examined student progress in an entry-level course, developed a new course, redesigned a course to include community-based learning, etc.

Briefly explain.

F. Are there "community engagement" activities integrated in your departmental curriculum?

a. Please indicate which of the components, listed below, are included in your program's curriculum, and then indicate if the activities are required or optional for students in your major.

Community Engagement Activity	*Included*	*Required/Optional*	
Student Research (related to a community-based problem)	__	R	O
Student-Faculty Community Research & Development Project	X___		O
Internship, or a Field Experience	X___		O
Independent Study (community-related project)	X___		O
Capstone Course (community-related project)	X___		O
Service-Learning (a component of a course)	X___	R	O
Study Abroad, or an International Program	___	R	O
Interdisciplinary Collaborative Project (community related)	X___		O
Student Leadership Activities (related to a team project)	X___	R	
Students/Faculty Community Leadership (advisory boards, committees, conference presentations)	X___		O
Other Activities (not mentioned above):			

b. Please list the courses (i.e. EDU 400) that have a "community engagement" activity in your program:

Entry-level courses: EYE 112

Mid-level courses: ITP-343 and 350

Upper-level courses: ITP-460, STH-440

Additional Comments:

Thanks for your cooperation!