PROGRAM REVIEW

Department: Environmental Water Technology

Date of Program Review: April 2025

Prepared by: Joe Cribbs

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Recommended Timeline

1. Program Review document will be completed and submitted to the Instruction Office by January 31st.
2. Vice President of Academic Affairs and Institutional Effectiveness Support will complete the summary report and send it to faculty by February 15th.
3. Vice President of Academic Affairs and Institutional Effectiveness Support will provide feedback to faculty by April 15th.
4. The faculty responsible will review the report, provide any follow up information and make comments within seven days of receiving the report.
5. Programs under review may be asked to present a summary of their program findings and an action plan to the Board of Trustees in the following academic year.

ACADEMIC PROGRAM/DISCIPLINE REVIEW
Fort Scott Community College

Introduction to Program

I. Scope

A. Program Relation to College Mission, Core Values, and Strategic Plan:

1. **How do the goals and measurable objectives for the program/discipline help the college meet its mission, core values, and strategic plan?**
   The goals and objectives of the EWT program support FSCC core values and vision through providing students with opportunities to attain personal success and growth through affordable technical and occupational programs. The program meets student professional development needs as well as provides a mutually supportive relationship with the communities served in water treatment. The program provides training to develop professionals, filling both public and private employment opportunities, enabling environmental specialists to implement strategies to preserve the environment and improve the quality of life in communities.
2. **What specific goals of the strategic plan are affected by this? Please explain.**
   Goal 1 Strategy 2: Strengthen community partnerships.
   The program strengthens community partnerships through facilitating student internships with community water treatment facilities. The internships create reciprocal benefits for the student interns who gain on-the-job training and for the community who gain from the efforts of newly trained professionals in the field. Every semester FSCC EWT advisory board meets with the faculty who also work in the industry, community members who work in the industry, KDHE, and FSCC administration to discuss the courses offered, any changes or recommendations from the industry.

   Goal 2 Strategy 1: Cultivate quality enhancements for education and learning: Improve Academic Processes.
   EWT faculty work with the Assessment Coordinator, Institutional Effectiveness Director, and Vice President of Academic Affairs to implement assessment best practices, including developing course and departmental rubrics in Blackboard, as well as aligning tests to with appropriate mapping to both course level and program level outcomes. These processes facilitate data collection and analysis, so that effective action plans can be developed to improve student learning outcomes, as well as assess program improvement.

B. Program/Discipline Demand/Need:
If applicable, provide any advisory board meeting minutes.

1. **Describe the need for the program/classes based on regional demands.**
   FSCC provides one of the few EWT programs in both the region and in the nation where students can earn an associate of applied science in environmental water technology, a one-year certificate in environmental technology and Continuing Education Units

(CEU's) with the Kansas Department of Health and Environment (KDHE). To address regional needs, the department currently offers eight areas of concentration:

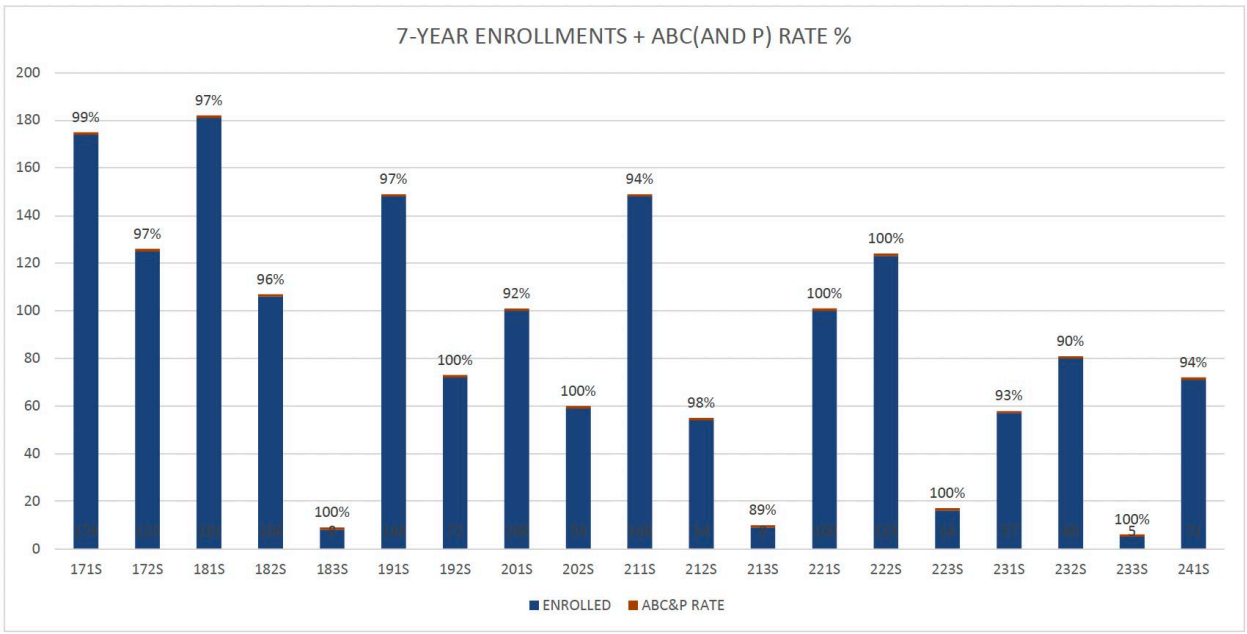
Water Plant Operation
Advanced Water Plant Operations
Water Distribution System Operation
Wastewater Treatment Plant Operation
Wastewater Collection System Operation
Utilities Maintenance
Utilities Management
Advance Wastewater

Students who complete the associate of applied science in environmental water technology degree, and are employed by a water or wastewater purveyor, qualify to take the Kansas State Operator Class 1 certification test from the Kansas Department of Health and Environment.

2. **Is program revision needed? If yes, provide a detailed rationale supporting the program change.**
   No changes need to be made to the program at this point.
3. **Describe how the revised program differs from the current one?**
   N/A

C. Program/Discipline Analysis:

1. **What procedures are used to ensure that course content is up-to-date?**
   The program utilizes current industry best practices in the curriculum per guidelines established by state and federal agencies, such as the Kansas Department of Health and Environment (KDHE) and the federal Safe Drinking Water Act. Additionally, every semester the FSCC EWT advisory board meets with the faculty who also work in the industry, community members who work in the industry, KDHE, and FSCC administration to discuss the courses offered, as well as any changes or recommendations from the industry.
2. **How do you ensure appropriate academic rigor and consistency of course content in all modalities and locations where the courses are offered?**
   Consistency across modalities is maintained through aligned course outcomes to program outcomes and through master syllabi. One long-time EWT instructors acts as mentor to new faculty, guiding them in curriculum and instruction.
3. **Provide the following data for your program below: Enrollment Data by course, credit hours, and grade distribution.**



EWT PROGRAM - GRADE DISTRIBUTIONS

TERM AND COURSE	A/P	B	C	D	F	W	ENROLLED	ABC&P RATE	DFW RATE
171S	169	2	1		2		174	99%	1%
172S	118	2	1		4		125	97%	3%
181S	165	8	3		1	4	181	97%	3%
182S	102				4		106	96%	4%
183S	8						8	100%	0%
191S	139	5				4	148	97%	3%
192S	68	3	1				72	100%	0%
201S	86	4	2	1	7		100	92%	8%
202S	59						59	100%	0%
211S	139			1	8		148	94%	6%
212S	52	1		1			54	98%	2%
213S	8				1		9	89%	11%
221S	98	2					100	100%	0%
222S	98	15	10				123	100%	0%
223S	16						16	100%	0%
231S	44	9			4		57	93%	7%
232S	58	11	3		4	4	80	90%	10%
233S	5						5	100%	0%
241S	67			3	1		71	94%	6%
Grand Total	1499	62	21	6	36	12	1636	97%	3%

EWT PROGRAM - GRADE DISTRIBUTIONS

TERM AND COURSE	A/P	B	C	D	F	W	ENROLLED	ABC RATE	DFW RATE
171S	**169**	**2**	**1**		**2**		**174**	**99%**	**1%**
OPERATION AND MAINTE	1		1				2	**100%**	**0%**
OCCUPATIONAL EXPERIE	1	1					2	**100%**	**0%**
CROSS CONNECTIONS CO	18				2		20	**90%**	**10%**
C C & BACKFLOW PREVE	7						7	**100%**	**0%**
SAFETY AND MATH	9						9	**100%**	**0%**
COLLECTION SYSTEM AD	1	1					2	**100%**	**0%**
HYDRAULICS OF COLLEC	2						2	**100%**	**0%**
WASTEWATER CERTIFICA	42						42	**100%**	**0%**
WATER CERTIFICATION	24						24	**100%**	**0%**
OCCUPATIONAL EXPER	10						10	**100%**	**0%**
UTILITY MGMT SKILL D	10						10	**100%**	**0%**
PRIN OF UTILITY FIN	10						10	**100%**	**0%**
UTILITY ORGANIZATION	10						10	**100%**	**0%**
WASTEWATER STABILIZA	8						8	**100%**	**0%**
SMALL W & WW SYSTEMS	16						16	**100%**	**0%**
172S	**118**	**2**	**1**		**4**		**125**	**97%**	**3%**
HYDRAULICS FOR WTPO	2				3		5	**40%**	**60%**
OPERATION AND MAINTE	2	2			1		5	**80%**	**20%**
OCCUPATIONAL EXPERIE	15						15	**100%**	**0%**
CROSS CONNECTIONS CO	14						14	**100%**	**0%**
C C & BACKFLOW PREVE	14						14	**100%**	**0%**
SAFETY AND MATH	5						5	**100%**	**0%**
LAB METHODS FOR WTPO	4						4	**100%**	**0%**
DISTRIBUTION HYDRAUL	11						11	**100%**	**0%**
HYDRAULICS FOR WATER	12						12	**100%**	**0%**
OPERATIONS AND MAINT	12						12	**100%**	**0%**
LABORATORY - D.O. AN	14		1				15	**100%**	**0%**
SURFACE WATER TREATM	13						13	**100%**	**0%**
181S	**165**	**8**	**3**		**1**	**4**	**181**	**97%**	**3%**
HYDRAULICS FOR WTPO	6	3	1			1	11	**91%**	**9%**
OPERATION AND MAINTE	7	1	1			1	10	**90%**	**10%**
OCCUPATIONAL EXPERIE	8	1			1	1	11	**82%**	**18%**
CROSS CONNECTIONS CO	7						7	**100%**	**0%**
C C & BACKFLOW PREVE	4						4	**100%**	**0%**
SAFETY AND MATH	6						6	**100%**	**0%**
LAB METHODS FOR WTPO	7	2	1			1	11	**91%**	**9%**
SURFACE WATER TREATM	7						7	**100%**	**0%**
WASTEWATER CERTIFICA	25						25	**100%**	**0%**
WATER CERTIFICATION	45						45	**100%**	**0%**
OCCUPATIONAL EXPER	8						8	**100%**	**0%**
UTILITY MGMT SKILL D	7	1					8	**100%**	**0%**
PRIN OF UTILITY FIN	8						8	**100%**	**0%**
UTILITY ORGANIZATION	8						8	**100%**	**0%**
WASTEWATER STABILIZA	5						5	**100%**	**0%**

SMALL SYSTEM WATER	4					4	**100%**	**0%**
SMALL WATER & WASTEW	3					3	**100%**	**0%**
182S	**102**			**4**		**106**	**96%**	**4%**
OCCUPATIONAL EXPERIE	9			1		10	**90%**	**10%**
CROSS CONNECTIONS CO	8					8	**100%**	**0%**
C C & BACKFLOW PREVE	2					2	**100%**	**0%**
SURFACE WATER TREATM	10					10	**100%**	**0%**
WASTEWATER STABILIZA	11					11	**100%**	**0%**
SMALL W & WW SYSTEMS	1					1	**100%**	**0%**
SMALL WATER & WASTEW	20					20	**100%**	**0%**
CURRENT TOPICS	14					14	**100%**	**0%**
PUMP AND PUMPING SYS	9			1		10	**90%**	**10%**
GENERAL MAINTENANCE	18			2		20	**90%**	**10%**
183S	**8**					**8**	**100%**	**0%**
C C & BACKFLOW PREVE	8					8	**100%**	**0%**
191S	**139**	**5**			**4**	**148**	**97%**	**3%**
HYDRAULICS FOR WTPO	6	2				8	**100%**	**0%**
OPERATION AND MAINTE	7	2				9	**100%**	**0%**
OCCUPATIONAL EXPERIE	8					8	**100%**	**0%**
CROSS CONNECTIONS CO	11					11	**100%**	**0%**
C C & BACKFLOW PREVE	4					4	**100%**	**0%**
SAFETY AND MATH	10					10	**100%**	**0%**
LAB METHODS FOR WTPO	7	1				8	**100%**	**0%**
WASTEWATER CERTIFICA	23					23	**100%**	**0%**
WATER CERTIFICATION	25					25	**100%**	**0%**
OCCUPATIONAL EXPER	4				1	5	**80%**	**20%**
UTILITY MGMT SKILL D	4				1	5	**80%**	**20%**
PRIN OF UTILITY FIN	4				1	5	**80%**	**20%**
UTILITY ORGANIZATION	4				1	5	**80%**	**20%**
SMALL W & WW SYSTEMS	2					2	**100%**	**0%**
SMALL WATER & WASTEW	8					8	**100%**	**0%**
ACTIVATED SLUDGE PRO	12					12	**100%**	**0%**
192S	**68**	**3**	**1**			**72**	**100%**	**0%**
OPERATION AND MAINTE	5					5	**100%**	**0%**
OCCUPATIONAL EXPER	5					5	**100%**	**0%**
CURRENT TOPICS	12					12	**100%**	**0%**
ADVANCED OPERATION	9	1				10	**100%**	**0%**
ADVANCED LAB METHODS	9	1				10	**100%**	**0%**
ADVANCED HYDRAULICS	10					10	**100%**	**0%**
ADVANCED OCCUPATIONA	8	1	1			10	**100%**	**0%**
PHYSICS FOR WWTPO	5					5	**100%**	**0%**
LAB METHODS WWTPO	5					5	**100%**	**0%**
201S	**86**	**4**	**2**	**1**	**7**	**100**	**92%**	**8%**
OCCUPATIONAL EXPERIE	4		1	1		6	**83%**	**17%**
CROSS CONNECTIONS CO	17					17	**100%**	**0%**
C C & BACKFLOW PREVE	15					15	**100%**	**0%**
DISTRIBUTION HYDRAUL	4	2				6	**100%**	**0%**

HYDRAULICS FOR WATER	5		1			6 **100%**	**0%**
OPERATIONS AND MAINT	4	2				6 **100%**	**0%**
WASTEWATER CERTIFICA	15				1	16 **94%**	**6%**
WATER CERTIFICATION	14				6	20 **70%**	**30%**
SMALL WATER & WASTEW	8					8 **100%**	**0%**
202S	**59**					**59 100%**	**0%**
CROSS CONNECTIONS CO	10					10 **100%**	**0%**
C C & BACKFLOW PREVE	9					9 **100%**	**0%**
SAFETY AND MATH	8					8 **100%**	**0%**
WATER CERTIFICATION	7					7 **100%**	**0%**
CURRENT TOPICS	25					25 **100%**	**0%**
211S	**139**			**1**	**8**	**148 94%**	**6%**
OPERATION AND MAINTE	1				2	3 **33%**	**67%**
OCCUPATIONAL EXPERIE	4					4 **100%**	**0%**
CROSS CONNECTIONS CO	11					11 **100%**	**0%**
C C & BACKFLOW PREVE	11				1	12 **92%**	**8%**
SURFACE WATER TREATM	8					8 **100%**	**0%**
WASTEWATER CERTIFICA	28					28 **100%**	**0%**
WATER CERTIFICATION	18					18 **100%**	**0%**
OCCUPATIONAL EXPER	9			1	1	11 **82%**	**18%**
UTILITY MGMT SKILL D	8					8 **100%**	**0%**
PRIN OF UTILITY FIN	8					8 **100%**	**0%**
UTILITY ORGANIZATION	8					8 **100%**	**0%**
PUMP AND PUMPING SYS	4					4 **100%**	**0%**
GENERAL MAINTENANCE	8					8 **100%**	**0%**
PHYSICS FOR WWTPO	1				2	3 **33%**	**67%**
LAB METHODS WWTPO	1				2	3 **33%**	**67%**
WATER DISTRIBUTION -	11					11 **100%**	**0%**
212S	**52**	**1**		**1**		**54 98%**	**2%**
HYDRAULICS FOR WTPO	9					9 **100%**	**0%**
OPERATION AND MAINTE	9					9 **100%**	**0%**
OCCUPATIONAL EXPERIE	7	1		1		9 **89%**	**11%**
LAB METHODS FOR WTPO	9					9 **100%**	**0%**
SMALL W & WW SYSTEMS	3					3 **100%**	**0%**
SMALL WATER & WASTEW	12					12 **100%**	**0%**
CURRENT TOPICS	3					3 **100%**	**0%**
213S	**8**				**1**	**9 89%**	**11%**
CROSS CONNECTIONS CO	7					7 **100%**	**0%**
C C & BACKFLOW PREVE	1				1	2 **50%**	**50%**
221S	**98**	**2**				**100 100%**	**0%**
OCCUPATIONAL EXPERIE	7					7 **100%**	**0%**
CROSS CONNECTIONS CO	7					7 **100%**	**0%**
C C & BACKFLOW PREVE	13					13 **100%**	**0%**
DISTRIBUTION HYDRAUL	7					7 **100%**	**0%**
HYDRAULICS FOR WATER	7					7 **100%**	**0%**
OPERATIONS AND MAINT	7					7 **100%**	**0%**
WASTEWATER CERTIFICA	13					13 **100%**	**0%**

WATER CERTIFICATION	15						15	**100%**	**0%**
OCCUPATIONAL EXPER	6						6	**100%**	**0%**
UTILITY MGMT SKILL D	5	1					6	**100%**	**0%**
PRIN OF UTILITY FIN	6						6	**100%**	**0%**
UTILITY ORGANIZATION	5	1					6	**100%**	**0%**
222S	**98**	**15**	**10**				**123**	**100%**	**0%**
OPERATION AND MAINTE	3						3	**100%**	**0%**
OCCUPATIONAL EXPERIE	12						12	**100%**	**0%**
SAFETY AND MATH	12						12	**100%**	**0%**
OCCUPATIONAL EXPER	2		1				3	**100%**	**0%**
WASTEWATER STABILIZA	17						17	**100%**	**0%**
SMALL W & WW SYSTEMS	15						15	**100%**	**0%**
CURRENT TOPICS	15						15	**100%**	**0%**
PUMP AND PUMPING SYS	4	5	3				12	**100%**	**0%**
GENERAL MAINTENANCE	8	10	6				24	**100%**	**0%**
ACTIVATED SLUDGE PRO	4						4	**100%**	**0%**
PHYSICS FOR WWTPO	3						3	**100%**	**0%**
LAB METHODS WWTPO	3						3	**100%**	**0%**
223S	**16**						**16**	**100%**	**0%**
CROSS CONNECTIONS CO	8						8	**100%**	**0%**
C C & BACKFLOW PREVE	8						8	**100%**	**0%**
231S	**44**	**9**			**4**		**57**	**93%**	**7%**
CROSS CONNECTIONS CO	8						8	**100%**	**0%**
C C & BACKFLOW PREVE	14						14	**100%**	**0%**
SURFACE WATER TREATM	11						11	**100%**	**0%**
ADVANCED OPERATION	2	3			1		6	**83%**	**17%**
ADVANCED LAB METHODS	2	3			1		6	**83%**	**17%**
ADVANCED HYDRAULICS	2	3			1		6	**83%**	**17%**
ADVANCED OCCUPATIONA	5				1		6	**83%**	**17%**
232S	**58**	**11**	**3**		**4**	**4**	**80**	**90%**	**10%**
HYDRAULICS FOR WTPO	6						6	**100%**	**0%**
OPERATION AND MAINTE	8	4	1		1	1	15	**87%**	**13%**
OCCUPATIONAL EXPERIE	6						6	**100%**	**0%**
CROSS CONNECTIONS CO	5						5	**100%**	**0%**
SAFETY AND MATH	6						6	**100%**	**0%**
LAB METHODS FOR WTPO	6						6	**100%**	**0%**
OCCUPATIONAL EXPER	5	1			1	1	8	**75%**	**25%**
WASTEWATER STABILIZA	4						4	**100%**	**0%**
CURRENT TOPICS	8						8	**100%**	**0%**
PHYSICS FOR WWTPO	2	3	1		1	1	8	**75%**	**25%**
LAB METHODS WWTPO	2	3	1		1	1	8	**75%**	**25%**
233S	**5**						**5**	**100%**	**0%**
CROSS CONNECTIONS CO	4						4	**100%**	**0%**
C C & BACKFLOW PREVE	1						1	**100%**	**0%**
241S	**67**			**3**	**1**		**71**	**94%**	**6%**
SURFACE WATER TREATM	8						8	**100%**	**0%**
WASTEWATER CERTIFICA	9						9	**100%**	**0%**

WATER CERTIFICATION	17			17	**100%**	**0%**
OCCUPATIONAL EXPER	8		1	9	**89%**	**11%**
UTILITY MGMT SKILL D	9	1		10	**90%**	**10%**
PRIN OF UTILITY FIN	8	1		9	**89%**	**11%**
UTILITY ORGANIZATION	8	1		9	**89%**	**11%**

4. **Instructor Information: List full time faculty, adjunct faculty, and concurrent faculty who teach courses in the program.**
   Joe Cribbs, Cody Isbell, Mike Delang, Gary Armentrout, Dean Grant, Paul Crocker, Geffery Luttrell, Denise Friday, Steve Green.

D. Program Assessment:

1. **What are the program outcomes and what methods are used to assess the program outcomes?**

Outcomes:

1. Students will demonstrate the knowledge of fundamental aspects of drinking water distribution, drinking water treatment, wastewater collection and wastewater treatments, utilities management and utilities maintenance.
2. Students will apply math and hydraulic skills to general public work activities, water and wastewater plant operation, management skills, collection systems and water distribution operations.
3. Students will follow safe work practices.
4. Students will be able to conduct routine operations and maintenance of equipment used in water treatment plant.
5. Students will demonstrate understanding of state and federal regulations for water and wastewater plant operations.

Assessment Methods:

Program outcomes are assessed through rubrics that are aligned to both course outcomes and program outcomes, providing assessment data at both levels.

Tests and quizzes are also aligned to course and program outcomes to provide additional assessment data.

2. **Complete the Curriculum Mapping Matrix.**

Course Number	Course Name	Program Outcome #1	Program Outcome #2	Program Outcome #3	Program Outcome #4	Program Outcome #5
EWT1013	Operations & Maintenance for WTPO	CO1,CO2, CO3,CO4, CO5,CO6, CO7	CO1,CO2, CO3,CO4, CO5,CO6, CO7	CO1,CO3, CO4,CO5, CO6,CO7	CO1,CO2, CO6, CO7	CO1,CO2, CO3,CO4, CO5, CO6, CO7
EWT1022	Hydraulics for WTPO	CO1,CO2, CO3,CO4, CO5,CO6, CO7	CO1,CO2, C O3,CO5, CO6	CO2,CO5		CO2,CO5
EWT1032	Lab Methods-Operation & Maintenance of WTPO	CO1, CO2, CO3,CO4, CO5	CO1,CO3	CO1, CO2, CO3,CO4, CO5		CO1,CO2, CO3,CO4, CO5
EWT1046	Occupational Experience for WTPO	CO1, CO2	CO2	CO1,CO2, CO3,CO4		
EWT1053	Utility Organization & Administration	CO1, CO2, CO3				CO1, CO2, CO3
EWT1062	Principles of Utility & Financing	CO1,CO2, CO3	CO1,CO2, CO3	CO1,CO2, CO3	CO1,CO2, CO3	CO1,CO2, CO3
EWT1072	Utility Management & Skill Development	CO1,CO2, CO3	CO1,CO2	CO1,CO2, CO3	CO1,CO2, CO3	CO1,C02
EWT1086	Occupational Experience-Utilities Management	CO1,CO2, CO3		CO1,CO2, CO3	CO1,CO2, CO3	CO1,CO3

3. **What is the process for program and course-level assessment.**
   The assessment process begins at the course level, where outcomes are mapped/aligned to program level outcomes in Blackboard. Assessment data is collected using both scaled rubrics (1=Does Not Meet Standards; 2= Needs Improvement; 3=Meets Standards; 4= Exceptional) and test items aligned to course level and program level outcomes. Semester data is collected using these methods. The Assessment Coordinator then creates assessment reports through EAC Visual Data Analytics program in Blackboard. These data reports are shared with faculty, who discuss the results and draft assessment narratives for improved student outcomes and program improvement.
4. **Include the findings of outcomes assessment reports from the department since the last program review? (Include the assessment data to support your findings.)**
   - EWT GOALS FOR PROGRAM SPRING 2024 P. 1.docx
   - EWT GOALS FOR PROGRAM SPRING 2024 P. 2.docx
   - EWT RAW DATA SPRING 24.xlsx
   - EWT GOALS FOR PROGRAM FALL 2024.docx
   - EWT RAW DATA FALL 2024.xlsx

Program : EWT		
Program Learning Outcomes	**Spring 2024**	**Fall 2024**
PLO1: Students will demonstrate the knowledge of fundamental aspects of drinking water distribution, drinking water treatment, wastewater collection and wastewater treatments, utilities management and utilities maintenance.	100%	100%
PLO2: Students will apply math and hydraulic skills to general public work activities, water and wastewater plant operation, management skills, collection systems and water distribution operations.	100%	100%
PLO3: Students will follow safe work practices.	100%	100%
PLO4: Students will be able to conduct routine operations and maintenance of equipment used in water treatment plant.	----------	100%
PLO5: Students will demonstrate understanding of state and federal regulations for water and wastewater plant operations.	100%	100%

E. For CTE programs only:

Program majors/Current concentrators

- 1,636 students served from the fall of 2017 to the fall of 2024.

Unduplicated prior 3-year graduates

5. **Please list any third-party accreditation.**
   The Kansas Water Environmental Association awards CEU credits to students with Association of Boards of Certification who take the EWT program.

6. **List any additional needs for the program (facilities, personnel, technology, student support, etc.).**

   The program would benefit from a full-time or part-time director to assist in instruction and recruitment. The program would also benefit from more marketing strategies through social media.

II. SWOT Analysis

A. Strengths:

Strengths of the program include a consistent high pass rate. The EWT faculty are all experienced professionals in the field and provide current best practices in instruction for the industry. The faculty have years of experience in the field and actively serve on state boards and organizations for the industry. One faculty member is the acting chair for the Northeast Kansas Operator Training Committee for the Kansas American Water Works Association. Another faculty member is a board member of the Kansas Water Environmental Association. Their expertise adds strength and credibility to the program.

B. Weaknesses:

A concerning program weakness is lack of a director (full-time or part-time). The lack of a director to coordinate recruitment and other activities may be one of the largest contributing factors to enrollment decline. Without a director, the program lacks staffing to actively recruit more students. In addition, the program does not have adequate PR to increase program presence and enrollment.

C. Opportunities:

Opportunities to strengthen the program include hiring a director and increasing recruiting efforts. Recruiting at the high school level is an opportunity for growth. Additionally, increasing public relations about EWT course offerings could increase enrollment and strengthen the program.

D. Threats:

KRWA (Kansas Rural Water Association) is a threat in that the FSCC EWT program has lost instructors to the KRWA. Also, KRWA offers their classes for free. Another threat is market saturation since the program and others like it have been in existence for many years.

III. Action Plan

A. Action Plan

1. **Provide a list of accomplished action items from the previous Program Review. What items are pending/not completed from the last Program Review? Please provide rationale.**

   N/A

2. **Create an action plan including justification for the program.**

   A. Funding for a part-time or full-time director who can increase recruitment and PR efforts to boost program enrollment.

   B. If grant funding is approved, create future stormwater classes; as result of the Stormwater workgroup, we are partnering with several other colleges on creating stormwater courses if the grant is approved per EPSCoR Research Infrastructure Improvement Collaboration Program. We applied for the grant through the National Science Foundation, Grant #NSF24-573.

      More details: The EWT program applied as part of the national grant along with Jason Bogle, University of Oklahoma, for the stormwater microcredential classes. According to the U.S. National Science Foundation, "The Established Program to Stimulate Competitive Research (EPSCoR) is designed to fulfill the mandate of the National Science Foundation (NSF) to promote scientific progress nationwide. Through this program, NSF establishes partnerships with government, higher education, and industry that are designed to affect sustainable improvements in a jurisdiction's research infrastructure, Research and Development (R&D) capacity, and hence, its R&D competitiveness." If the grant is approved, the funding will enable the program to provide microcredential courses for stormwater training.

   C. Create grouped block courses per semester with mapping to tests and/or rubrics. As students go through the sequence of EWT courses, semester courses have interrelated ideas that are best taught showing those related ideas. Grouping course content in the LMS with appropriate test and/or rubric mapping will facilitate better instruction and student outcomes.

SUMMARY REPORT
ACADEMIC PROGRAM REVIEW

Date:

Academic Program Report Checklist

Cover Sheet:

- ☐ **Department**
- ☐ **Date of Program Review**
- ☐ **Prepared By**

Introduction to Program

I. Scope

- ☐ **Program Relation to College Mission, Core Values, and Strategic Plan:**
  - ☐ Goals and measurable objectives aligned with college mission.
  - ☐ Strategic plan goals impacted by the program.
- ☐ **Program/Discipline Demand/Need:**
  - ☐ Advisory board meeting minutes (if applicable).
  - ☐ Description of regional demands for the program/classes.
  - ☐ Need for program revision (if applicable).
  - ☐ Rationale and details of proposed program changes.
- ☐ **Program/Discipline Analysis:**
  - ☐ Procedures ensuring up-to-date course content.
  - ☐ Measures ensuring academic rigor and consistency.
  - ☐ Enrollment data by course, credit hours, and grade distribution.
  - ☐ Instructor information (full-time faculty, adjunct faculty, concurrent faculty).
- ☐ **Program Assessment:**
  - ☐ Program outcomes and assessment methods.
  - ☐ Curriculum Mapping Matrix completion.
  - ☐ Process for program and course level assessment.
  - ☐ Findings from outcomes assessment reports since the last review.
  - ☐ Assessment data supporting findings.

- **CTE Programs Only:**
  - Program majors/current concentrators.
  - Unduplicated prior three-year graduates.
  - Third-party accreditation (if any).
  - Additional program needs (facilities, personnel, technology, student support).

II. SWOT Analysis

- **Strengths:**
- **Weaknesses:**
- **Opportunities:**
- **Threats:**

III. Action Plan

- **Action Plan:**
  - List of accomplished action items from the previous review.
  - Pending/not completed items from the last review with rationale.
  - Justification for the current action plan.

Recommendation

Appendix

Enrollment Data