**Curriculum Renewal:**

**Analysis and Action Plan Template 2014/15**

| **Program Coordinator:**  | **Jon Carter** | **School:** | **SENRS** |
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| **Program Code:** | **AQU** | **Date Completed:** | **June 16, 2015** |
| **Program Name:**  | **Aquaculture** |

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| **A. Analysis of Indicators**Note: data is **not** recorded in this section of the template.**Reflect on, and discuss, the following indicators in the context of the curriculum and program:**   |
| 1. **Industry / Sector Trends**
	1. Identify any new or emergent *industry or sector* related issues and trends over the past year that will impact your program?
* ***New culture techniques are being implemented (e.g., offshore operations) that will need to be incorporated into the curriculum of the program.***
* ***Aquaponics is becoming more commercial. This sector will need to have more emphasis in the program curriculum.***
	1. What are the Advisory Committee recommendations from the past year that will affect the positioning, nature, or scope of your program?
* ***Due to scheduling difficulties, the PAC was unable to meet this academic year.***
	1. What information / observations have been generated via faculty and staff professional development, engagement in sectoral and profession associations, or involvement in community and employer networks connected to the field?
* ***Feedback from employers indicate that the program is satisfying their needs.***
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| **2. Curriculum Development*** 1. Identify any curriculum changes in the last year such as changes in course content and course materials, course / program outcomes, innovative delivery approaches, and/or assessment practices.
* ***More emphasis on net pen/ornamental operations***
* ***More emphasis on disease of Salmonids***
* ***Renovations to hatchery were completed which complemented the Mechanical course.***
* ***Program start date moved from end of October to traditional fall start (beginning of September)***
* ***Rainbow trout fingerlings were brought in the hatchery and a change to stocking only Atlantic salmon fry which gives students exposure to various life stages of different species of fish.***
	1. Does the current curriculum align with the college’s e-learning strategy which strives to have all Fleming graduates experience technology enhanced learning in each semester of their program? Identify courses where possible.
* ***Content is available to students on D2L. Students have an opportunity to complete two Aquaculture Safety certificates online if they so choose.***
	1. Does the current curriculum align with the College’s Strategic Plan to *“infuse sustainability across the curriculum and across the student experience so that graduates understand and address sustainability issues.” (Goal 3.3)* Please identify which courses/experiences in the students’ program that sustainability issues are addressed.
* ***Aquaculture in the Modern World, Fish Husbandary Procedures and Analysis, Trout and Salmon Farming Field Trips and Workshops, Supervisory Fish Husbandry and Hatchery Management, Aquaculture Enterprises and Principles and Practices in Cool and Warm Water Aquaculture all teach sustainability in the acquaculture industry.***
	1. Identify any recent or anticipated initiatives that promote student pathways including partnerships with high schools, program laddering, university transfer / articulations, or continuing education?
* ***None***
	1. Identify any new competitor programs and/or re-positioning of existing programs?
* ***None, there are two year diploma programs but no post graduate programs***
	1. Identify if there are any new or changing provincial standards, standards for accreditation, credentials, and / or industry or sector certifications over the past year?
* ***Not in this past year.***
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| **3. Applied Learning*** 1. Does the current program contain a discrete Applied Learning opportunity for students? If yes, which category of Applied Learning is fulfilled?

\_**X**\_ Field Work (Indirect Supervision) **\*\*Presently this program has an intership course**\_\_\_ Field Work (Direct Supervision)\_\_\_ Co-op\_\_\_ Applied Project / Applied Research Project * 1. If the answer to 3.1 is no, are there plans to create a discrete Applied Learning opportunity for students within this program? Why or why not?
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| **4. Student and Graduate Satisfaction**4.1 Comment upon this year’s Key performance indicators (KPI # 4, 8, 9, and 11) regarding student and graduate satisfaction (\*reference Fleming Data Research website)* ***There is no key performance indicator data available because the program started in the 2013/2014 academic year.***

4.2 Review and discuss student retention on a semester by semester basis over the past year.* ***There is no published retention rate data available because the program started in the 2013/2014 academic year.***
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| **B. Curriculum Strengths and Challenges** Summarize the curriculum strengths and challenges identified by the team.  |
| **Strengths*** ***Hands-on applied nature***
* ***On-site hatchery that has been newly renovated***
* ***Ability to work with several species of fish***
* ***Internship which may become a paid co-op in the future***
* ***Ability to take field trips locally to various, different operations***

**Challenges*** ***New program, so challenges with attracting potential students***
* ***Finding appropriate local placements for the intership course***
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| **C. Action Plan**Identify priority actions for the next year and the rationale for their inclusion. For each, indicate the project lead, and the proposed timelines for completion. **What resources are required to complete the action plan, i.e., software, equipment, and training?**  |
| * ***Continue to expose Fish and Wildlife program students to the program and hatchery in order to garner interest in the Aquaculture program. Lead: Jon C. Timeline: to be completed in Jan/Feb 2016.***
* ***Partnering with the Culinary program to produce Rainbow trout for the culinary program. This will expose the Aquaculture students to real-life production scenarios. Lead: Jon C., Steve Moghini Timeline: end of 2015/2016 program delivery.***
* ***Conduct a NSERC engage feed trial with MTS Environmental. Lead: Jon C., Ryan Hill Timeline: April 2016.***
* ***More emphasis on net pen/ornamental operations and disease of Salmonids will be implemented. Lead: Jon C. Timeline: 2015/2016 program delivery.***
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| **D. Deferred Actions**Record any issues that will need to bemonitored, researched, or deferred for future action. |
| * ***None***
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| **E. Attach an updated Program Curriculum Map to your report**  |
| Please file an updated Program Curriculum Map in folder named Program Curriculum Map.: **S:\shared data\CLT\School Name\Program Name\Program Curriculum Map** |