



## Agricultural Watershed Management

Agricultural watershed management is a new program in LLCC Workforce Development that provides valuable training on this emerging aspect of today's farming industry. Flexibility is built-in. Apply what you learn immediately to your work as you earn portable, stackable certificates which can build upon each other and lead to an associate or bachelor's degree.

### *Program highlights include:*

- Introduction to the comprehensive problems and best practice solutions associated with agricultural soil health, including nutrient loss reduction and sediment retention.
- Hands-on laboratory practice combined with online learning for emerging agricultural watershed management technologies.
- Instructors that are veteran educators and practicing professionals doing applied work in this field.

*Intended audience:* farm owners and operators, agricultural service providers, and traditional agriculture and environmental science students at any level.

**For more information about the program, contact David Bowman at 217.786.2317 or [david.bowman@llcc.edu](mailto:david.bowman@llcc.edu). To register for Springfield classes, call 217.786.2292.**



## Agricultural Watershed Management Tech I

### Certificate of Completion

Required courses:

AWM 101	Conservation Practice Systems I
AWM 102	Conservation Practice Systems II
AWM 103	Nutrient Use Efficiency
AWM 107	Agricultural Watershed Management

The course requirements can be completed in nine months.

### SPRING 2018 – SPRINGFIELD

#### AWM 102 – Conservation Practice Systems II

Jan. 16-Mar. 8

Tuesday and Thursday, 6-9:50 p.m.

This course uses sub-surface agricultural water conservation activities to effect nutrient loss reduction and soil retention strategies. Techniques covered include various tile layouts, drainage water management, erosion and run-off control, integration of saturated buffers and bioreactors in nutrient management, and other long-term practices. Focus is on long-term agricultural watershed health based on best current evidence through utilization of open-source informatics, teamwork and collaboration within a given agricultural boundary. This class consists of two lecture hours and two laboratory hours.

*This pilot course is offered at no cost to the student. Costs are covered by the TAACCCT grant.*

#### AWM 103 – Nutrient Use Efficiency

Mar. 20-May 10

Tuesday and Thursday, 6-9:50 p.m.

This course examines agricultural nutrient use efficiencies under various farm systems. Topics covered include all 17 crop-essential nutrient cycles, water cycle, green manures, soil health, animal manures and waste water, soil Cation Exchange (CEC) and pH effects on plant nutrients and management practices, all with the purpose of reducing nutrient loss and retaining soils. Focus is on long-term agricultural watershed health based on best current evidence through utilization of open-source informatics, teamwork and collaboration within a given agricultural watershed boundary. This class consists of two lecture hours and two laboratory hours.

## Agricultural Watershed Management Tech II

### Certificate of Achievement

Required courses:

AWM 101	Conservation Practice Systems I
AWM 102	Conservation Practice Systems II
AWM 103	Nutrient Use Efficiency
AWM 104	Agriculture Readiness for Change
AWM 105	Agricultural “Big-Data” Management
AWM 106	Agricultural Sediment Fundamentals
AWM 107	Agricultural Watershed Management
AFO 208	Applied Skills in Ag Mechanization
AGR 208	Introduction to Agricultural Mechanics
ESI 101	Employability Skills

The course requirements can be completed in 18 months.

### 2+2 Agreement with SIUE

Receive the Agricultural Watershed Management Tech II Certificate of Achievement from LLCC and a bachelor’s degree in integrative studies from SIUE. Efficiently and cost-effectively progress toward completion of a bachelor’s degree program. Special benefits to program participants include access to SIUE’s resources, activities and academic advisement as appropriate while attending LLCC. For more information on 2+2, visit: <http://www.siu.edu/transfer/programs/2-2-agreement.shtml>.



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