

NLPS: Agriculture Mechanics and Engineering

An overview of the program of study



NLPS General Information

- NLPS take affect for the class of 2025 (current 8th graders)
 - If a student from the class of 2025 wants to be a CTE Concentrator, then they will have to use the NLPS.
- All courses will be funded if students meet the requirements for each course (i.e. required prerequisites)
 - The Principles of Ag course will be a required prerequisite for all ag courses starting with the 2023-2024 school year.
 - Since schools are not required to opt into the NLPS for the 2021-2022 school year, a student from the class of 2025 would have to go back and take the principles course prior to graduation in order to be a CTE Concentrator.
 - Being a CTE Concentrator is one way that students can meet the new graduation pathways.



NLPS General Information

- It is recommended that schools offer the dual credit aligned with each course.
 - Dual credit is not required for a school to receive funding
 - Dual credit is not required for a student to earn credits toward CTE Concentrator status
- It is recommended that a school offer at least one complete NLPS in each of the CTE areas they offer.
 - Schools can continue to offer additional CTE courses for elective or science credit if available
 - Funding will still be available for the additional CTE courses offered if students meet the requirements outlined in the course description.



NLPS Agriculture Mechanics and Engineering

- Additional dual credit alignment with the Principles of Agriculture course.
- Funded at the high value funding level
 - Principles of Ag- \$400 (moderate value, level 1)
 - Agriculture Power, Structures and Technology- \$680 (high value, level 1)
 - Agriculture Structures Fabrication and Design- \$680 (high value, level 1)
 - Ag Mechanics and Engineering Capstone- \$1020 (high value, level 2)



NLPS Agriculture Mechanics and Engineering

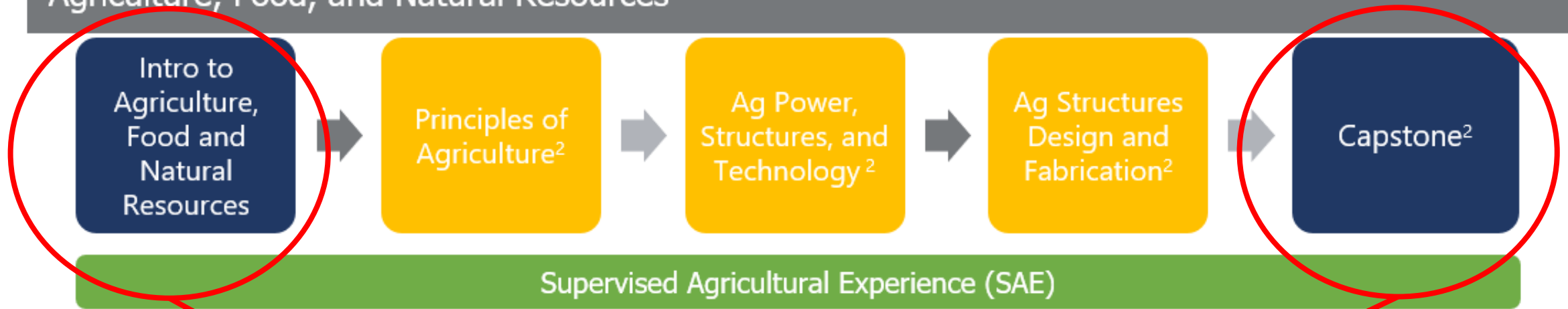
- A complete list of the courses included in the Agriculture Mechanics and Engineering program of study can be found on the [NLPS Review Document](#)
 - Includes the following
 - DOE Course Codes
 - Course Titles and Descriptions
 - Postsecondary Alignment
 - Key Competencies required for each course pulled from the postsecondary course outline on record



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

These courses are recommended, but NOT required.

- The Intro to AFNR course can be offered at the 8th grade level for CTE funding and for high school credit.
- The Capstone can be a pathway specific course or a shared course across multiple ag pathways



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

- NLPS were designed to not have courses that are available to be offered for multiple credit hours
 - This is another reason why the Ag Structures Design and Fabrication course was added
- These courses will prepare students to further their education in a postsecondary setting or join the workforce.



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

- Begins all the agriculture NLPS
- NOT eligible for funding at the 8th grade level
- Dual credit alignment with
 - AGRI 100 Intro to Agriculture- Ivy Tech
 - AGBS 101 Intro to Agribusiness- Vincennes



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

- Principles of Agriculture is a required prerequisite
- Can be taught concurrently with the principles and/or concentrator B course
- Dual credit alignment with
 - AGRI 106 Agriculture Mechanization – Ivy Tech
 - AGRI 128 Ag Safety – Ivy Tech



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

- Principles of Agriculture is a required prerequisite
- Can be taught concurrently with the principles and/or concentrator A course
- Dual credit alignment
 - TBD



Course Sequencing

AGRICULTURE MECHANICS AND ENGINEERING

Agriculture, Food, and Natural Resources



¹ Satisfies a Core40 Science requirement. ²Statewide dual credit available.

- Recommended that at least 2 credits of a capstone course is offered but NOT required
- Multiple options available
 - Agriculture Mechanization and Technology Capstone- available for the Ag Mechanics and Engineering pathway only
 - Agribusiness Capstone- available for each ag pathway
 - Agricultural Research Capstone- available for each ag pathway



NLPS Resources

- The Office of CTE has a web page on their website dedicated to the [Next Level Programs of Study Resources](#)
 - Available Courses for 2021-2022
 - Program Categorizations and Funding Levels
 - Perkins V Pathways w/ current courses vs. w/NLPS courses
 - NLPS Review Document
 - NLPS Assignment Codes
 - 2021-2022 Indiana CTE Career Guide
 - NLPS Webinar
 - NLPS Implementation Workshop



Questions

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