

REQUEST TO APPROVE MODIFICATION OF CONSTRUCTION TECHNOLOGY PROGRAM

Recommendation: The Instructional Council (IC) recommends approval of the Construction Technology (CON) program modification for Associate of Applied Science (AAS), Certificate of Applied Science (CAS), and Certificate of Proficiency (CP)

Summary:

The rationale behind the following minimal changes is to align our program with updates made to the National Center for Construction Education and Research (NCCER) Construction Technology curriculum. The NCCER Construction Technology is discontinuing the 3rd edition of the book and moving to the 4th edition. The 4th edition of the book removed a module on “Jobsite Layout” and added a module on “Cabinetmaking.” These changes need to be implemented for students by Fall 2021 so we can continue to award NCCER certifications. In order to meet the competencies of the new edition, we are requesting the following:

- Remove CON 101- Jobsite Layout (3 credits) from the Construction Technology CP. We would like the course to remain in the course bank, as the Masonry CP will still utilize this course. –Request to Proceed
- Add CON 121- Cabinetmaking (3 credits)-already a course in ACRES) to the Construction Technology CP- Request to Proceed.
- Change catalog language for the Construction Technology CP by removing CON 101 and adding CON 121. (total credits will not change)
- Remove CON 101 as a prerequisite to CON 265 and add CON 121 instead (already approved by IC and VPLSS).



Construction Technology

(CON)



Certificate Options – CP & CAS

The Construction Technology program emphasizes general residential and commercial construction by teaching basic hands-on skills applicable across a wide range of industrial and manufacturing processes.

If you are thinking about a building trades career, consider these benefits of NPC's Construction Technology program:

- Highly qualified and experienced construction professionals provide instruction in small, personalized classroom and workshop settings.
- Hands-on classes take place in the Painted Desert Campus (Holbrook) NPC Skills Center. This state-of-the-art facility is an ideal setting for learning construction skills basics. Classes are also offered at the Whiteriver Center.
- NPC tuition and fees are among the lowest in the entire state. And you may even qualify for federal grants to help defray your education-related expenses!
- OSHA-10 construction certification to prepare you for entry into the workforce is standard.
- Coursework is geared to fulfill the requirements of NCCER, the national agency for standardized construction training and credentialing. Successful completion provides a portable certification of skills that heightens employability in any location.

For more information regarding this program, contact the program chair at (800) 266-7845, ext. 6236.

Cost & Time for Completion

The U.S. Department of Education requires NPC to annually publish cost and time for completion data on Career & Technical Education certificate programs.

You can access the current data online at www.npc.edu/construction.

Construction Technology (CP) • 25 credits

CON 101 Jobsite Layout*	3 credits
CON 121 Cabinetmaking*	3 Credits
CON 102 Introduction to Construction Methods*	3 credits
CON 111 Plan Reading and Employment*	3 credits
CON 120 Concrete and Masonry Systems*	3 credits
CON 126 Framing Systems*	4 credits
CON 145 Roofing, Thermal and Moisture Protection Systems*	3 credits
CON 228 Electrical Systems*	3 credits



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CON 229 Plumbing and Mechanical Systems* 3 credits

* NCCER Certified Course

Construction Technology (CAS) • 31 credits

Complete the Construction Technology CP 25 credits

PLUS

Communications..... 3 credits

ENL 101 College Composition I 3 credits

Mathematics 3 credits

Select any course under the **Mathematics** General Education Course Options (for CAS and AAS Degrees) on page 66

Associate of Applied Science (AAS) Degree

Why Study Construction Technology?

The economic downturn that has slowed the construction industry in Arizona the past few years is easing. Prospects for the building trades are greatly improved and increasing every day! Now is the opportune time to learn construction technology skills that will serve you a lifetime.

At NPC, you'll find a degree program that emphasizes building fundamentals for any number of career fields including: masonry and concrete systems, framing, roofing, thermal and moisture protection, electrical, mechanical and plumbing systems. Effective communication and job success strategies are emphasized throughout the program.

Career Opportunities

Employment of construction laborers and helpers is projected to grow 13 percent through 2024.

According to the U.S. Bureau of Labor Statistics (USBLS), entry-level construction positions in the non-metropolitan northern Arizona area average \$46,700 per year (May 2019). With experience in specialized areas of construction, salaries rise along with increases in skill and expertise.

Some typical annual salaries for skilled construction workers as listed by the USBLS:

- Highway maintenance worker:
\$44,630
- Cement masons/concrete finishers:
\$48,330.
- Carpenters: \$52,850;
- Electricians: \$60,370;
- Drywall and ceiling tile installers:



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\$50,560; first-line construction supervisor: \$71,440.
Bureau of Labor Statistics, U.S. Department of Labor, May 2019.

Construction Technology (AAS) • 64 credits

Complete the Construction Technology CAS 31 credits

PLUS

General Education Courses 3 credits

Communications 3 credits

Select any course under the Communications General Education Course Options (for AAS Degrees) on page 66.

Discipline Studies 7 credits

(Select one course from the **Physical and Biological Sciences** and one course from either the **Arts and Humanities** or **Social and Behavioral Sciences** lists on page 66.)

Core Courses 8 credits

CON 200 Integrated Construction Management/Design Laboratory 3 credits

CON 230 Sustainable Construction* 3 credits

CON 265 Construction Capstone Portfolio 2 credits

* NCCER Certified Course

AND

Electives 15 credits

Select any unduplicated 100-level or above courses.

CON 265 • Construction Capstone Portfolio

2 credits

Integration of construction processes including: operations, trades (masonry, concrete, carpentry, finishes, and electrical), and management processes. Prerequisites: CON 101, 102, 111, 120, 121, 126, 145, 228, 229 or instructor permission. One and a half lecture; one lab. Spring semester.



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