

Policy on Admission

To be eligible for admission, students must have graduated from an accredited high school or attained the equivalent educational level as determined by the College. Students seeking admission to the College's Baccalaureate Transfer Division must satisfy high school course pattern requirements as well as meet provisions of standardized tests. Enrollees in the College's Career Division must also meet provisions of standardized tests. Nongraduates may apply for admission if scholastic records, test scores, and other data indicate to the satisfaction of the College that the student will be able to do college-level work. Satisfactory completion of the General Educational Development test may be accepted in lieu of a high school diploma. All new students are expected to take counseling and placement examinations as advised by the Office of Admissions. Counselors will use the results to advise, recommend, and in certain cases, require students to enroll in particular courses or programs of study.

All students must provide transcripts of high school work or transcripts of credits earned at other colleges or universities.

For more information, call one of the following toll-free numbers:

Carbondale 549-7335
Carterville 985-3741
Crab Orchard 1-800-851-4720
DeSoto 549-7335
Du Quoin 542-8612, 542-9210
Elkville 542-8612
Gorham 1-800-851-4720
Herrin 985-3741
Johnston City 985-3741
Marion 985-3741
Murphysboro 549-7335
Trico Area 1-800-851-4720
West Frankfort 937-3438, 932-6639
TTY (Hearing Impaired) 985-2752

John A. Logan College website
<http://www.jalc.edu>

John A. Logan College
Carterville, Illinois 62918



John A. Logan College does not discriminate on the basis of race, religion, color, national origin, disability, age, or gender.

Tooling Manufacturing



John A. Logan College
Carterville, Illinois

Rev. 05-04-JALC

Tooling Manufacturing

Tool and die makers are highly skilled workers who make various types of tooling for industry. It is their responsibility to build and maintain the precision tooling that is required to produce the products of today. They also produce various types of gages and fixtures to help ensure that a manufacturer's products meet quality standards.

Tool and die manufacturing is a core resource for all the manufacturers in the U.S. There are not enough toolmakers now, and as manufacturing needs increase, the need for qualified people also increases.

Objectives

Objectives are as follows: to teach essential skills and operational theory; to develop the ability to apply this skilled knowledge to practical problems; to develop correct work habits; to help students to become occupationally competent; and to find employment upon completion.

Earnings

Tool and die makers can expect to make between \$35,000 and \$50,000 per year depending on the employer and location. Benefits include health and life insurance, a pension plan, paid vacations, and sick leave.



Tooling Manufacturing Technology (Tool & Die)

First Year - Fall Semester

Course			Credits
DRT	185	Computer Graphics I	2
MAC	150	Machine Tool Operations	2
MAC	151	Machine Tool Lab	2
MAC	152	Machine Tool Lab	2
MAC	153	Machine Tool Lab	2
MAC	180	Blueprint Reading	3
MAT	106	Technical Math	4
		OR Mat 107 Technical Math with Applications	
WEL	150	Oxy-Acetylene Fusion Welding	$\frac{1}{18}$

First Year - Spring Semester

Course			Credits
IND	122	CAD/CAM Operations	2
MAC	154	Introduction to CNC	2
MAC	155	Machine Tool Lab	2
MAC	156	Machine Tool Lab	2
MAC	157	Machine Tool Lab	2
MFT	101	Production Technology	3
PSC	131	American Government	3
		OR HIS 201 OR 202 U.S. History	
WEL	162	T.I.G. Welding	$\frac{1}{17}$

Second Year - Fall Semester

Course			Credits
IDM	210	Hydraulics and Pneumatics	3
ENG	113	Professional Technical Writing	3
		OR ENG 101 English Composition I	
MAC	159	CAM Operations	2
IND	201	Metallurgy	2
TDM	201	Tool & Die Lab I	3
TDM	201A	Tool & Die Lab IA	$\frac{3}{16}$

Second Year - Spring Semester

Course			Credits
MAC	164	Machine Tool Lab	2
DRT	282	Tool Design	3
PHY	121	Technical Physics	3
PSY	132	General Psychology*	2-3
		OR PSY 128 Human Relations	
SPE	115	Speech or SPE 116 Interpersonal Communications*	3
TDM	202	Tool & Die Lab II	3
TDM	202A	Tool & Die Lab IIA	$\frac{3}{19-20}$
Optional			
Dept. No.			Hrs.
ATI	200	Applied Technologies Internship	1-3

*NOTE: Students attending a 4-year university will need PSY 132 and SPE 116.

Job Opportunities and Placement

Throughout the nation, employers are reporting difficulties in finding skilled workers to hire as tool and die makers. Three out of 10 tool and die makers are age 50 and older. As older workers begin to leave, employers will face more pronounced shortages. The job outlook for these skilled workers looks excellent in the years to come.

A job placement service is provided for all John A. Logan College graduates in an effort to assist students finding gainful employment. Each year, new graduates prepare and update their resumes and submit them to the College Placement Office. Employers then contact the College to arrange for interviews with qualified students.