

Associate of Science ASSOCIATE OF SCIENCE DEGREE (AS)



Amanda Roberts (above) graduated from Glen Oaks Community College in 2001 with an Associate of Science Degree. She is now an Engineering Technician at Engineered Plastic Components, a division of Alcoa Inc., in Mattawan, Mich. While at GOCC she was named Engineering Student of the Year and earned a Distinguished Community College Scholarship to Western Michigan University. Amanda earned a Bachelor Degree in Mechanical Engineering at WMU. "I now work in prototype research for EPC automotive parts and love what I am doing," said the Three Rivers resident.

GLEN OAKS
COMMUNITY COLLEGE
62249 Shimmel Rd.
Centreville, MI 49032
467-9945
1-888-994-7818
www.glenoaks.edu

The Associate of Science degree is appropriate for those students who plan to pursue further study in Biology, Astronomy, Geology, Chemistry, Mathematics and Physics. This degree is also appropriate for those interested in careers in Statistics, Mathematics, Bio-Technology and Secondary Education majors who plan to major in Science (e.g. math, biology, geology, chemistry or physics teachers). Students must complete the Natural Science Core and either the Life Science Emphasis or the Physical Science Emphasis to qualify for this degree.

62 Credits

- No courses below 100 level will be accepted toward this degree.
- Anyone beginning the Associate of Science Degree at Glen Oaks since Fall 1990 must complete MACRAO requirements in order to qualify for the degree.

MATRICULATION

Transfer agreements between Glen Oaks and other colleges and universities make it possible for students to start their education programs at Glen Oaks and be assured they can earn specialized or advanced degrees at a transfer institution, without loss of time or credit. In this way, students with plans for a four-year degree can still get the advantage of a community college "start."

Glen Oaks urges you to visit the counselors in Student Services to coordinate your transfer plans with the latest information from your target transfer institution. Glen Oaks counselors have complete curriculum guides listing courses that will transfer for the programs, if they are taken at Glen Oaks. The counselors work closely with colleges, receive regular program information, communicate on a regular basis, and attend workshops and seminars at the institutions. Remember to also discuss these plans with your transfer school to ensure satisfaction.

Transfer of credits is guaranteed if: 1) The student met regularly with a GOCC counselor. 2) A grade of 2.0 (C) or better was achieved in each course to be transferred. 3) The course choices must be listed on the student's official curriculum guide sheet along with transfer school's name and major. If these conditions were met and a course does not transfer, Glen Oaks will refund the tuition for that course.

NOTE: Research projects do not transfer, but they may help because parallel sophomore coursework or the course experience may transfer to other colleges.

Associate of Science Degree

Communications (6 credit hours)

COM 121 English Composition*	3 Credits
COM 122 English Composition*	3 Credits

Humanities (choose 8 credit hours from 2 different prefixes)

ART 220 History of Art I	4 Credits
ART 221 History of Art II	4 Credits
HUA 100 Art Appreciation	4 Credits
HUF 161 Spanish I	4 Credits
HUF 162 Spanish II*	4 Credits
HUF 163 Spanish III*	4 Credits
HUF 261 Spanish IV*	4 Credits
HUH 101 Modern Culture and the Arts	4 Credits
HUL Literature Classes*	4 Credits
HUM 150 Music Appreciation	4 Credits
HUM 151 Music Appreciation: Jazz & Pop	4 Credits
HUP 210 Ethics*	4 Credits
HUP 230 Introduction to Philosophy	3 Credits
HUR 231 Comparative Religions	4 Credits
HUR 232 Old Testament	4 Credits
HUR 233 New Testament	4 Credits
SSH 101 Western Civilization I: Ancient World to 1715*	4 Credits
SSH 102 Western Civilization II: Europe c. 1700 to Present*	4 Credits

Social Science (choose 8 credit hours from 2 different prefixes)

BAE 203 Principles of Economics (Micro)*	4 Credits
BAE 204 Principles of Economics (Macro)*	4 Credits
SSA 201 Introduction to Cultural Anthropology	4 Credits
SSG 100 American Government & Political Science*	4 Credits
SSG 111 State and Local Government	3 Credits
SSH 101 Western Civilization I: Ancient World to 1715*	4 Credits
SSH 102 Western Civilization II: Europe c. 1700 to Present*	4 Credits
SSH 201 U.S. History I: European Colonization to 1877*	4 Credits
SSH 202 U.S. History II: Reconstruction to the Present*	4 Credits
SSH 204 History of Michigan	4 Credits
SSP 101 Psychology	4 Credits
SSP 201 Psychology & Personality	3 Credits
SSP 210 Human Growth & Development*	4 Credits
SSP 220 Abnormal Psychology	4 Credits
SSS 120 Principles of Sociology	4 Credits
SSS 121 Modern Social Problems	4 Credits
SSS 220 Marriage & Family*	4 Credits

Natural Science Core (required courses – 21 credits)

NSM 161 Calculus I & Analytic Geometry*	4 Credits
NSB 121 General Biology I*	4 Credits
NSC 133 General Chemistry I*	4 Credits
AND NSC 134 General Chemistry II*	4 Credits
NSP 151 General Physics I*	4 Credits
AND NSP 152 General Physics Lab*	1 Credits
OR NSP 251 Physics I*	4 Credits
AND NSP 252 Physics I Lab*	1 Credit

Life Science Emphasis

Students planning on further study in the life sciences should complete the following additional coursework:

NSB 122 General Biology II*	4 Credits
NSB 275 Biology Research Project*	2 Credits

Plus 11 hours of additional coursework from the life sciences prefixes: NSA, NSB or Mathematics: NSM 162 Calculus II or higher

Physical Science Emphasis

Students planning on further study in the physical sciences should complete the following additional coursework:

NSP 253 Physics II*	4 Credits
NSP 254 Physics II Lab*	1 Credit
NSP 275 Physical Science Research Project*	2 Credits

Plus 10 hours of electives in the following prefixes: NSS, NSP, NSG or Mathematics at NSM 162 Calculus II or higher

Physical Education Activity (choose 2 credit hours)

Total.....62 Credits

*Course has a prerequisite

NOTE: No courses below the 100 level will be accepted toward this degree.

NOTE: Anyone beginning the Associate of Science Degree at Glen Oaks in Fall, 1990 or later must complete MACRAO requirements in order to qualify for the degree
Effective: Fall 2008

This publication is intended to provide a general overview of the program. For current specific requirements, consult with a Glen Oaks Community College academic counselor.

Sample Courses

SSP 101 PSYCHOLOGY, 4 Credits, 4 Contacts

A scientific study of behavior is examined which leads to a greater understanding of human behavior, insight into mental processes and a better comprehension of the inconsistencies between human feelings and actions. Topics include learning, memory, the nervous system, perception, motivation, social interaction, attitudes, intelligence and abnormal behavior.

Prerequisite: None

HUP 230 INTRODUCTION TO PHILOSOPHY, 3 Credits, 3 Contacts

An introduction to the study of philosophy emphasizing the examination of issues that have been the focus of thinkers of various cultures and civilizations. This course will challenge students to foster a greater understanding, tolerance and appreciation for diversity of alternative views and approaches to philosophical thought.

Prerequisite: None

NSB 121 GENERAL BIOLOGY I, 4 Credits, 5 Contacts

A general study of the principles and processes of biology and the nature of biological investigation, with emphasis on ecology, cellular biology, and energy transformations. This course, together with NSB 122 General Biology, provides a basic background for further work in the biological sciences. Laboratory investigations include field studies on the 300 acre Glen Oaks campus.

Prerequisite: NSB 120 Biology or one year of high school biology and either NSM 100 Introductory Algebra concurrently or placement into NSM 104 Intermediate Algebra or equivalent.

NSC 133 GENERAL CHEMISTRY I, 4 Credits, 6 Contacts

A systematic approach to the study of general chemistry. Both scientific and mathematical concepts are stressed. Topics include metric system, atomic theory, chemical reactions and stoichiometry, oxidation-reduction, atomic structure, periodic law, thermodynamics, basic organic and biochemistry. Descriptive chemistry is also interwoven with these concepts. Laboratories are coordinated with lecture topics. (Recommended for science majors).

Prerequisite: High School chemistry or NSC 130 Chemistry and either NSM 100 Introductory Algebra or placement into NSM 104 Intermediate Algebra or equivalent college course.



The MACRAO Transfer Agreement

The Michigan Association of Collegiate Registrars and Admission Officers (MACRAO) Transfer Agreement insures that a student who completes an Associate of Science, an Associate of Arts, and Associate of Business degree at Glen Oaks Community College will have satisfied most of the basic 2-year requirements of a 4-year college.

Basic 2-year requirements which must be included in the Associate of Science, Associate of Arts and Associate of Business are as follows:

1. English Composition (6 semester hours)
2. Natural Science (8 semester hours). At least one of the natural sciences will be a laboratory course. Mathematics is included in the natural science category. Courses will be taken in more than one academic discipline.
3. Social Science (8 semester hours). Courses will be taken in more than one academic discipline.
4. Humanities (8 semester hours). Courses will be taken in more than one academic discipline.

Preparation

Current High School Students:

To be prepared to enter directly into the first semester of college courses, the college recommends that you complete a Secondary School Business and Management Career Pathway Sequence provided at many schools. Check with your High School Counselor for High School Graduation requirements and possible Articulation Agreements. *Courses might include English, Math, General Science or Lab Science courses, Basic Keyboarding, Introduction to Computers, Advanced Computer classes, Foreign Language, Psychology/Sociology and Geography.*

Adults Returning to School:

Don't underestimate your life experience!

A Glen Oaks Community College counselor can help you assess your life experience and suggest how you can best apply those skills to your academic goals.

AQP/Nov08

Career Resources

Glen Oaks Career Counseling Services
Students Services Department
(269) 467-9945 or (888) 994-7818
www.glenoaks.cc.mi.us

Michigan's Web-based Education Development Plan
www.mi-edp.org

Bureau of Labor Statistics Occupational Outlook Handbook
www.bls.gov/oco

Michigan Occupational Information System MOIS
www.mois.org

Non-Discrimination Statement:

It is the policy of Glen Oaks Community College that no discriminatory practices based on gender/sex, race, religion, color, age, national origin, disability, height, weight, or any other status covered by federal, state, or local law be allowed in providing instructional opportunities, programs, services, employment or in policies governing student conduct and attendance. Contact the Associate Dean of Instruction or Civil Rights Coordinator at GOCC (269.467.9945) if you feel discriminatory practices have taken place.

Benjamin L. Younts, D.C., is owner of Chiropractic Physicians, P.C., Shipshewana, Ind. Dr. Younts is a 1994 graduate of Centreville High School and a 1996 graduate of Glen Oaks with an **Associate of Science Degree**. He transferred to National



College of Chiropractic near Chicago and earned a Bachelor of Human Biology and Doctorate of Chiropractic. Ben said GOCC classes were smaller and the college's location was convenient for the White Pigeon resident. "I managed 17 to 19 credit hours a semester while working and still achieved a 3.0 average. I enjoyed Dr. Wayne Moss' science classes and the advice and support I got from Tom Soper (retired) and other professors." Students like Ben have successfully transferred credits to over 350 colleges and universities nationwide.

STUDENT SUPPORT

- **Personalized educational and career planning**
- **Financial aid and scholarships**
- **Free tutoring**
- **Modern labs and computer information classrooms**
- **Full-service library/computer center**
- **Small class size**
- **Caring, knowledgeable instructors.**

CALL NOW

467-9945 or
888-994-7818
www.glenoaks.edu



Glen Oaks
Community College
62249 Shimmel Rd.
Centreville, MI 49032

