

NORTHWEST VISTA COLLEGE
NANOTECHNOLOGY
 ASSOCIATE OF APPLIED SCIENCE DEGREE PLAN
2009-2010 Catalog



Nanotechnology is a multidisciplinary field, working at the crossroads of physics, chemistry, biology, engineering, and information technology. Not only does it provide the potential for miniaturization, but materials at the nano level exhibit entirely new material properties, which offer the possibility of new devices, applications, and technologies. The program provides graduates the knowledge, skills and abilities to operate a variety of nanofabrication equipment, understand scientific principles and the behavior of matter at the atomic level in chemical, biological and molecular systems.

The Nanotechnology Associate of Applied Science will prepare students for careers in emerging nanotechnology industries as entry-level nanotechnicians in research and development corporations, fabrication, biology/agriculture, medicine, electronics, and material science.

Student: _____ Date: _____
LAST NAME FIRST NAME MI

Student ID # (SSN): _____ Academic Advisor: _____

| Semester I | HOURS | Semester II | HOURS |
|--|--------------|--|--------------|
| __BIOL 1406 Biology for Science Majors I | 4 | __CHEM 1311 General Chemistry Lecture I | 3 |
| __ENGL 1301 Composition I | 3 | __CHEM 1111 General Chemistry Laboratory I | 1 |
| __MATH 1314 College Algebra | 3 | __ENGL 1302 Composition II | 3 |
| __NANO 1301 Introduction to Nanotechnology | 3 | __NANO 1303 Nanotechnology Safety | 3 |
| | | __QCTC 1341 Statistical Process Control | 3 |
| Total | 13 | Total | 13 |

| Semester III | HOURS | Semester IV | HOURS |
|---|--------------|--|--------------|
| __CHEM 1312 General Chemistry Lecture II | 3 | __BITC 2441 Molecular Biology Techniques | 4 |
| __CHEM 1112 General Chemistry Laboratory II | 1 | __NANO 2426 Nanotechniques and Instrumentation | 4 |
| __NANO 2325 Nanotechnology Materials | 3 | __PHIL 2306 Introduction to Ethics | 3 |
| __PHYS 1301 General Physics I Lecture | 3 | __PHYS 1302 General Physics II Lecture | 3 |
| __PHYS 1101 General Physics I Lab | 1 | __PHYS 1102 General Physics II Lab | 1 |
| __PSYC 2301 General Psychology | 3 | | |
| Total | 14 | Total | 15 |

| Semester V | HOURS |
|---|--------------|
| __SPCH 1321 Business and Professional Communication | 3 |
| __NANO 2486 Internship – Nanotechnology | 4 |
| Total | 7 |

NOTES: A course may be used only once to fulfill degree requirements.
 A grade of C or higher is required for all prerequisite and technical courses.
 While a grade of D or higher will satisfy NVC degree requirements for non-prerequisite courses, most institutions require a grade of C or higher in order for a course to be considered for transfer.
 Check with the transfer institution to ensure that the courses taken at NVC will apply to the appropriate degree program.
 *Select courses from the Core Curriculum selection list when specific courses are not listed.

Transfer coursework is *unofficial* until all official transcripts are evaluated and posted.