NAVAL SCIENCE (NS)

**NS 101 Introduction to Naval Science**  
3 credits  
Introduction to the Naval Service: custom and traditions, structure, career paths, basic leadership, ethics and character development, duties of a junior officer, and ships/aircraft of the U.S. Navy Fleet. Cooperative: open to WSU degree-seeking students. (Fall only)

**NS 104 Seapower and Maritime Affairs**  
3 credits  
An overview of U.S. naval history; seapower and maritime affairs beginning with the Continental Navy to present-day naval history. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 121 Introduction to Naval Science Laboratory I**  
1 credit  
Practical instruction for introduction to Freshman Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Fall)

**NS 122 Introduction to Naval Science Laboratory 2**  
1 credit  
Practical instruction for introduction to Freshman Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Spring)

**NS 200 (s) Seminar**  
Credit arranged

**NS 203 (s) Workshop**  
Credit arranged

**NS 204 (s) Special Topics**  
Credit arranged.  
Cooperative: open to WSU degree-seeking students.

**NS 205 Navigation**  
3 credits  
Theory, principles, and procedures of terrestrial and electronic navigation, and rules of the nautical road. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 206 Naval Leadership and Management**  
3 credits  
Theories of management and management resources, motivational theories, and leadership. Cooperative: open to WSU degree-seeking students. (Fall only)

**NS 221 Introduction to Naval Science Laboratory 3**  
1 credit  
Practical instruction for introduction to Sophomore Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Fall)

**NS 222 Introduction to Naval Science Laboratory 4**  
1 credit  
Practical instruction for introduction to Sophomore Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Spring)

**NS 299 (s) Directed Study**  
Credit arranged  
Cooperative: open to WSU degree-seeking students.

**NS 303 Ship Systems I**  
3 credits  
Intro to Naval shipboard engineering systems; propulsion systems; nuclear, gas turbine, and conventional; auxiliary systems and shipboard damage control; basic concepts in ship design. Cooperative: open to WSU degree-seeking students. (Fall only)

**NS 304 Ship Systems II**  
3 credits  
Naval weapons systems; theory and process of detection (radar and sonar), evaluation; weapons; delivery, guidance, and explosives; integration of weapons systems with command, control, and communications systems. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 311 Evolution of Warfare**  
3 credits  
Evolution of war through tactics; strategy from Sun Tzu to J.F.C. Fuller. Recommended preparation: NS 101, NS 104. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 321 Introduction to Naval Science Laboratory 5**  
1 credit  
Practical instruction for introduction to Junior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Fall)

**NS 322 Introduction to Naval Science Laboratory 6**  
1 credit  
Practical instruction for introduction to Junior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Spring)

**NS 402 Naval Leadership and Ethics**  
3 credits  
An intellectual exploration of Western moral traditions and ethical philosophy within a military context. Topics will include military leadership, core values, professional ethics, and conduct of warfare with applications appropriate for future Navy and Marine Corps officers. Recommended preparation: NS 206. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 403 (s) Workshop**  
Credit arranged

**NS 404 (s) Special Topics**  
Credit arranged.  
Cooperative: open to WSU degree-seeking students.

**NS 406 Naval Operations**  
3 credits  
Naval operations and tactics, relative motion, and Maneuvering Boards. Cooperative: open to WSU degree-seeking students. (Fall only)  
**Prereq:** NS 301.

**NS 412 Fundamentals of Maneuver Warfare**  
3 credits  
Amphibious doctrine and its relation to maneuver warfare. Recommended preparation: NS 311. Cooperative: open to WSU degree-seeking students. (Spring only)

**NS 421 Introduction to Naval Science Laboratory 7**  
1 credit  
Practical instruction for introduction to Senior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Fall)
NS 422 Introduction to Naval Science Laboratory 8
1 credit
Practical instruction for introduction to Senior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Spring)

NS 423 Introduction to Naval Science Laboratory 9
1 credit
Practical instruction for introduction to Senior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Fall)

NS 424 Introduction to Naval Science Laboratory 10
1 credits
Practical instruction for introduction to Senior Naval Science Students. Graded A/B/C/D/F. Cooperative: open to WSU degree-seeking students. (Spring)

NS 499 (s) Directed Study
Credit arranged
Cooperative: open to WSU degree-seeking students.