

## Certificate

# Molecular Diagnostics Certificate

<http://www.odu.edu/mdts/molecular-diagnostics> (<http://www.odu.edu/mdts/molecular-diagnostics/>)

Robert Bruno, PhD, Program Director

The discipline of molecular diagnostics includes all tests and methods to identify disease, a predisposition for a disease, diagnosis and prognosis of disease, and potential responses to drug therapy by analysis of an individual's DNA, RNA, and proteins. Molecular technology is now widely applied to infectious disease, genetics testing, identification of methicillin-resistant *Staph aureus* (MRSA), cancer diagnosis and metastasis, forensic science, and personalized medicine.

The post-baccalaureate molecular diagnostics certificate program is designed to provide fundamental principles, advanced applications and laboratory skills needed for molecular diagnostic and molecular biology procedures conducted in clinical and research environments.

## Curriculum Requirements

The Certificate is awarded upon completion of 12 credit hours in a coherent sequence with a 3.0 GPA.

### Required Courses

MDTS 500	Principles of Molecular Pathology and Clinical Diagnostics	3
MDTS 501	Molecular Diagnostics Laboratory	3
MDTS 600	Advanced Clinical Applications of Molecular Diagnostics	3
MDTS 601	Advanced Molecular Diagnostics Laboratory	3

### Optional Course

MDTS 668	Clinical Laboratory Internship	
----------	--------------------------------	--

---

<b>Total Credit Hours</b>		<b>12</b>
---------------------------	--	-----------