

HISTORY & BACKGROUND

- Project initiated in 2007
- Guided by NSCC Grape/Wine Advisory Committee (PAC)
 - Perennia
 - Dept. of Agriculture
 - Winery Association of NS
 - Grape Growers Association of NS
- Industry surveys conducted
- Development of grape growing & winemaking courses
- Strategic Alliance with Niagara College



GRAPE GROWING COURSE OFFERINGS

Introduction to Grape Growing

This course introduces a variety of topics intended to covercompetencies required to plan, design, plant and maintain a vineyard in Nova Scotia. Topics covered include:

Vineyard Planning and Development: Importance of proper site selection and planning required to develop a NS vineyard.

Planting, Trellis Design, Pruning and Canopy Management: Demonstrations and field trips - will provide current practices and methods for planting and maintaining a Nova Scotia vineyard.



Integrated Pest Management: Various pests and beneficial species in NS vineyards and the managemen procedures used for control.

Harvest and Processing: Will define the term "quality wine grape" and the relationships between sugar, acid, and pH levels during the grape ripening phase.

Class Details:

Class #:	Instructor: Patrick Cantieni	
Campus: NSCC Kingstec Campus, 236 Belcher St., Kentville, Nova Scotia	Materials: not applicable	
Dates: Jan 15 – Apr 9, 2015	Duration: 36 Hours	
Time: Thursday 6:00 PM - 9:00 PM	Cost: \$403	

To Register:

By Phone | NSCC Admissions Speak to us in person: 8:00 AM to 5:00 PM Monday - Thursday 8:00 AM to 4:00 PM Friday Toll-free 1-866-679-6722

Hearing Impaired Service TTY in Metro - 491-5509 TTY Outside Metro Area - 1-866-288-7034 In Person

Register at a campus near you 8:00 AM – 4:00 PM, Monday to Friday For the most up-to-date course schedule and the complete course details, visit:

www.coned.nscc.ca

WINTER 2015

Continuing Education

Part-time · Evenings · Weekends · Online

- Introduction to Grape Growing in Nova Scotia
 - First offered in winter 2009
- Intermediate Grape Growing 5 modules
 - Canopy Management & Weed Control
 - Wildlife Protection & Harvest
 - Pruning & Training
 - Propagation & Vineyard Establishment
 - Integrated Management of Diseases & Insects





WINEMAKING COURSE OFFERINGS

Niagara College Winemaking

Learn how to make wine form the most experienced and award-winning winemaker in Nova Scotia!

Bruce Ewert has over 25 years of experience and will facilitate internationally recognized curriculum from Niagara

Learn about the equipment, fundamentals, process, testing and analysis involved in winemaking. The course will blend conventional and organic winemaking approaches including traditional-method sparkling in a variety of learning venues, including L'Acadie Winery. You will be



challenged to plan your own vintage in a group project and enjoy the fruits of your labour.

Class Details:

Class #:	Instructor: Bruce Ewert	
Campus: NSCC Kingstec Campus, 236 Belcher St., Kentville, Nova Scotia	Materials: not applicable	
Dates: Jan 13 – Apr 21, 2015	Duration: 36 Hours	
Time: Tuesday 6:00 PM - 9:00 PM	Cost: \$464	

To Register:

By Phone | NSCC Admissions

Speak to us in person: 8:00 AM to 5:00 PM Monday - Thursday 8:00 AM to 4:00 PM Friday Toll-free 1-866-679-6722

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WINTER 2015

Continuing Education

Part-time · Evenings · Weekends · Online

nscc

- Niagara College Winemaking
 - First offered in winter 2014
- Replaced with Introduction to Winemaking



NSCC EDUCATIONAL VINEYARD

- Established in 2014
- 1+ acre in size
- Living Lab for students and industry
- 5 hybrid varieties
 - Leon millot
 - Marechal foch
 - New York Muscat
 - Vidal blanc
 - L'Acadie blanc









NSCC EDUCATIONAL WINERY

- ACOA funding: Investing in Atlantic Canada's industry
- 1,800 square foot industry-specified facility
- 2,500L tank capacity
- Set-up for still, sparkling and cider
- Wine analysis laboratory for all standard testing
- Construction completed in 2015





Fermentation Room





Bottling Station





Wine Lab



COOL CLIMATE WINE AND VITICULTURE

- Delivery commenced January 2019
- Grape growing, Winemaking, Sales/Promotions
- 4 Semesters: January December 2019
- 3 Work Integrated Learning courses, progressive skill development/length:
 - April 1 18 3 weeks
 - June 24 July 26 5 weeks
 - September 30 November 8 6 weeks
 - Progressive skill development & contact length
 - Placements throughout Atlantic Canada



COOL CLIMATE WINE AND VITICULTURE

Courses:

- Biology for Viticulture
- Introduction to the Wine Industry in Nova Scotia
- Planning and Establishing the Vineyard
- Cellar Operations
- Integrated Pest Management
- Canopy and Vineyard Health Management
- Aging and Bottling Wine
- Wine Marketing and Sales
- Vineyard Harvest and Post Harvest Maintenance
- Grape Processing and Fermentation
- 3 Work Integrated Learning Practicums

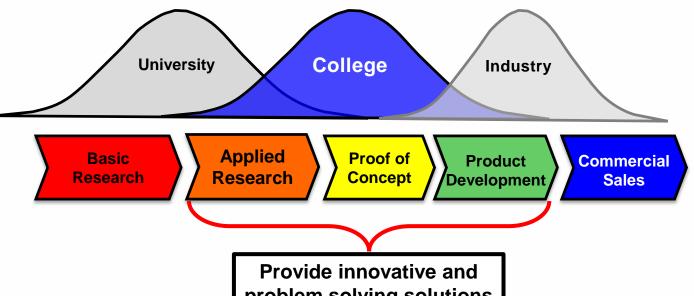
Semester 2 Semester 3 Semester 1 ELTVP-WINE 3-1.0 BIOL 1025 COMM 1228 * Biology for Viticulture Communications II Elective - Prescribed 0.75 credits (45) 0.5 credits (30) (VITICULTUR) (Semester 3) 1.0 credits (60) BUSI 1090 HLAN 3006 * Introduction to the Wine Integrated Pest MKTG 1150 Industry in Nova Scotia Management Wine Marketing and 1.0 credits (60) 0.75 credits (45) Sales (INCOMPLETE) 0.75 credits (45) VITI 1105 Canopy and Vineyard COMM 1227 VITI 1205 Health Management Communications I Vineyard Harvest and 1.75 credits (105) Post Harvest 0.5 credits (30) Maintenance 1.75 credits (105) VITI 1965 * Viticulture Practicum II VITI 1005 2.0 credits (120) Planning and VITI 1969 * Establishing the Viticulture Practicum III Vineyard 2.5 credits (150) 1.5 credits (90) WINE 1110 Aging and Bottling Wine 1.0 credits (60) VITI 1960 * WINE 1210 Viticulture Practicum I Grape Processing and 1.25 credits (75) Fermentation 1.0 credits (60) **WINE 1010** Cellar Operations 1.25 credits (75)

FUTURE DEVELOPMENTS



- Expansion of grape & wine programming
 - Industry Workshops
- Expansion and initiation of research projects
 - Vineyard Site Suitability Mapping
- Continuous improvement via PAC & Terroir Project Learnings
- Holistic College Vision/Integration of Production & Consumption
 - Bridge between horticulture/viticulture & culinary/tourism





Increase Productivity and Quality

Reduce Risks

Product Development

problem solving solutions

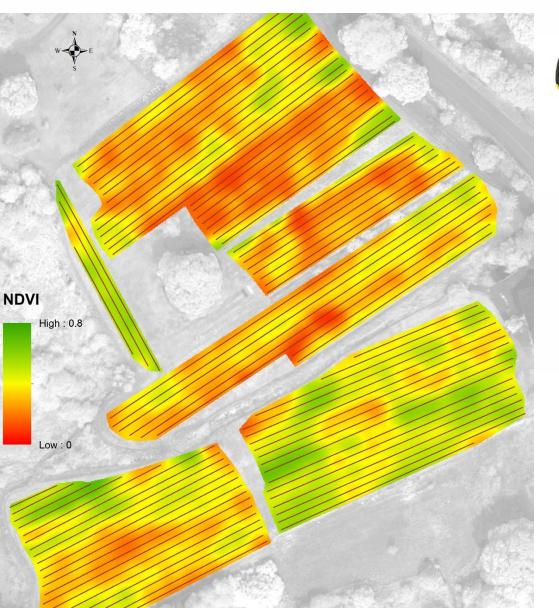
IP – 100% company

















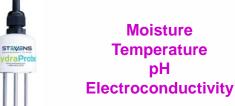


Agriculture Sensor Development

Wind Speed
Air Temperature
Relative Humidity
Precipitation
Solar Radiation



NDVI Plant vigor)





Integrated Geospatial
Applications for site specific
management

Decision Support System

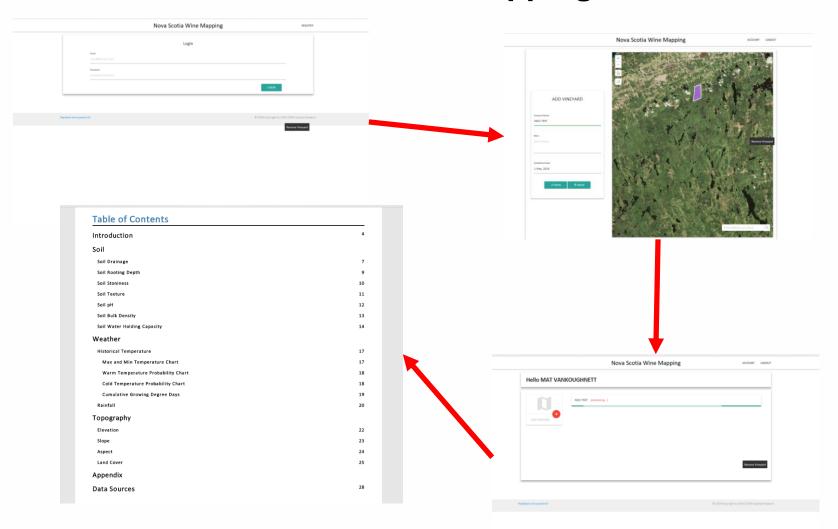
Productivity and Quality

Plant and soil

Harvest determination
Crop determination
Yield prediction
Irrigation amounts
Pest mgmt
Disease mgmt



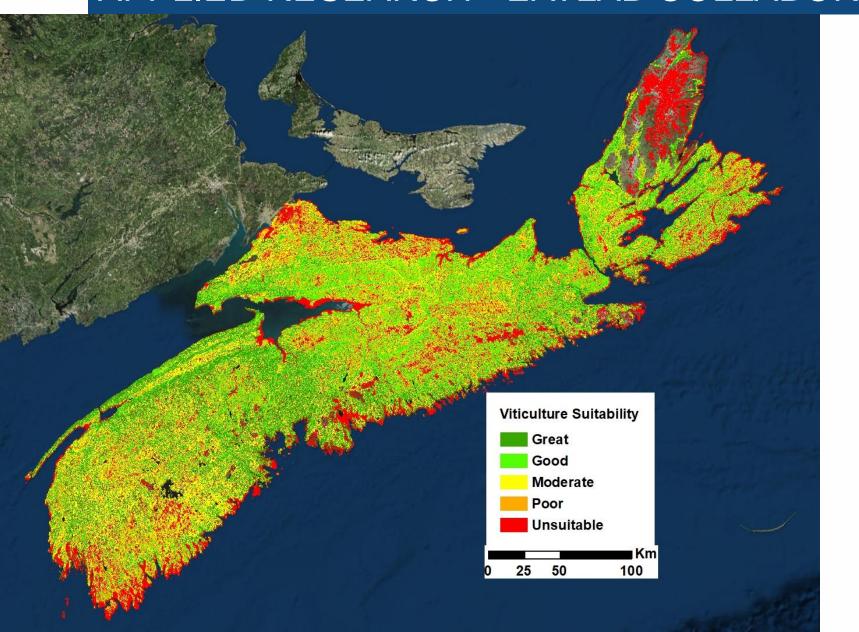
Nova Scotia Wine Mapping



Productivity and Quality

Plant and soil





Reduce Risks

Spatial analysis and geomatics





Reduce Risks

Frost protecting products









Food and Wine





FUTURE RESEARCH- QUALITY OF YIELD

Utilize small research plot on campus

Engage vineyards and wineries

Guided by industry support and involvement



Kingstec Research Plot: 0.25 Acres

Potential areas of study ("QUALITY")

Vineyard Site Suitability & Continued climate research (EATLAB)

Cultivar evaluation trial / exploration of new varieties

Canopy management

Trellis systems

Grape breeding

Precision viticulture





STRIVE. nscc