

## Brothers, Sheila C

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**From:** Schroeder, Margaret <m.mohr@uky.edu>  
**Sent:** Wednesday, April 22, 2015 10:48 AM  
**To:** Hippisley, Andrew R; Brothers, Sheila C  
**Subject:** Proposed new Undergraduate Certificate: Distillation, Wine and Brewing Studies  
**Attachments:** Distillation Wine and Brewing Studies UG Certificate-new (Revised 4-21-15).pdf

### Proposed New Undergraduate Certificate: Distillation, Wine and Brewing Studies

This is a recommendation that the University Senate approve the establishment of a new Undergraduate Certificate: Distillation, Wine and Brewing Studies, in the Department of Horticulture in the College of Agriculture, Food and Environment.

The revised proposal is attached. This approval assumes the new courses that went with this proposal are approved or are on the way to approval.

Best-

Margaret

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Margaret J. Mohr-Schroeder, PhD | Associate Professor of Mathematics Education | [STEM PLUS Program Co-Chair](#)  
| [Department of STEM Education](#) | [University of Kentucky](#) | [www.margaretmohrschroeder.com](#)



October 13, 2014

MEMORANDUM

TO: Karen Badger, Chair, Undergraduate Council  
FROM: *Larry Grabau*  
Larry Grabau, Chair, Undergraduate Curriculum Committee, CAFE  
RE: Proposed Undergraduate Certificate in Distillation, Wine and Brewing Studies

Seth DeBolt and his colleagues from all across campus have been working for months to put together the attached proposal for a new undergraduate certificate in Distillation, Wine and Brewing Studies (DWBS). This certificate will require students to take a pair of three-credit courses:

- 1) A&S 306, Spirit Chemistry, directed by Bert Lynn of the Department of Chemistry, and
- 2) PLS 335, Distillation, Wine and Brewing Science, directed by Seth DeBolt of the Department of Horticulture.

Eleven other courses are listed as choices for students to take to fill out their twelve-credit requirement; approximately a dozen faculty members have pledged their involvement to the DWBS certificate program as course instructors.

Seth DeBolt will serve as the Certificate Director and Bert Lynn will serve as the Certificate co-Director; the core leadership group for the certificate will also include Rodney Andrews (Chemical and Materials Engineering), Melissa Newman (Animal and Food Sciences), Tricia Day (Retailing and Tourism Management), and Jeff Rice (Writing, Rhetoric, and Digital Studies).

Several of the courses listed for this program (including both of the required courses) are new courses; indeed some have not yet been submitted for formal approval.

Finally, this letter is followed by the formal application materials, along with a series of letters of support from the appropriate chairs (representing their faculty members).

## PROPOSAL FOR NEW UNDERGRADUATE CERTIFICATE

*An Undergraduate Certificate is an integrated group of courses (as defined here 12 or more credits) that are 1) cross-disciplinary, but with a thematic consistency, and 2) form a distinctive complement to a student’s major and degree program, or 3) leads to the acquisition of a defined set of skills or expertise that will enhance the success of the student upon graduation. Undergraduate Certificates meet a clearly defined educational need of a constituency group, such as continuing education or accreditation for a particular profession; provide a basic competency in an emerging area within a discipline or across disciplines; or respond to a specific state mandate.*

*After the proposal receives college approval, please submit this form electronically to the Undergraduate Council. Once approved at the academic council level, the academic council will send your proposal to the Senate Council office for additional review via a committee and then to the Senate for approval. Once approved by the Senate, the Senate Council office will send the proposal to the appropriate entities for it to be included in the Bulletin. The contact person listed on the form will be informed when the proposal has been sent to committee and other times, subsequent to academic council review.*

Please click [here](#) for more information about undergraduate certificates.

1. GENERAL INFORMATION						
1a	Undergraduate Certificate Home:	Department <input checked="" type="checkbox"/>	OR	College <input type="checkbox"/>	OR	Other <input type="checkbox"/>
	If “Other,” please explain:					
1b	Name of hosting academic unit: <i>Department of Horticulture</i>					
1c	Proposed certificate name: <i>Distillation, Wine and Brewing Studies</i>					
1d	CIP Code <sup>1</sup> , primary discipline: <i>01.0309</i>					
	CIP Code for other disciplines: <i>01.0000; 01.1001.</i>					
1e	Requested effective date:	<input checked="" type="checkbox"/> Semester after approval.	OR	<input type="checkbox"/> Specific Date <sup>2</sup> :		
1f	Contact person name: <i>Dr. Seth DeBolt</i>	Email: <i>Seth.DeBolt@uky.edu</i>	Phone: <i>257-8654</i>			
2. OVERVIEW						
2a	Provide a brief description of the proposed new certificate. (300 word limit)					
	<i>The Undergraduate Certificate in Distillation, Wine and Brewing Studies (DWBS) aims to be inclusive of students from all departments and colleges at UK. The Departments of Animal and Food Sciences; Biosystems and Agricultural Engineering; Chemistry; Chemical and Materials Engineering; History; Horticulture; Plant and Soil Sciences Retailing and Tourism Management; and Writing, Rhetoric and Digital Studies are all engaged in DWBS. Three key overarching student learning outcome comprise the DWBS and are accomplished through a cluster of courses:</i>					

<sup>1</sup> You must contact the Office of Institutional Effectiveness prior to filling out this form (257-2873 | [institutionaleffectiveness@uky.edu](mailto:institutionaleffectiveness@uky.edu)). The identification of the appropriate CIP code(s) is required for college-level approval and should be done in consultation with the Undergraduate Council Chair and Registrar.

<sup>2</sup> Certificates are typically made effective for the semester following approval. No program will be made effective unless all approvals, up through and including University Senate approval, are received.

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	<ul style="list-style-type: none"> <li>• <i>Students will comprehend the breadth of the career opportunities in the DWBS industry.</i></li> <li>• <i>Students will be able to identify key technical methods and analytical skills required in the DWBS industry.</i></li> <li>• <i>Students will be capable of outlining the history of DWBS, and clearly explain how this relates to human cultures.</i></li> </ul> <p><i>There are two key reasons for offering this program. First, this industry represents the science of one of the oldest products linked to human civilization; thus, education opportunities span a breadth of disciplines. Secondly, this is a global industry that provides a wide and interdisciplinary range of careers. The curriculum was developed due to an urgent need to train people in this area as identified by the local industries. The Bluegrass is home to nearly 95% of one of the world's premier distilled spirits, bourbon. There are over 70 wineries in the area as well, in addition to numerous large and small breweries.</i></p> <p><i>The program is suited to an undergraduate certificate rather than a minor because the undergraduate certificate creates a framework for students from programs across the UK to gain a certificate without changing their major/minor of interest, which is congruent with the interdisciplinary nature of the career opportunities available in this space.</i></p>
2b	<p>This proposed certificate (check all that apply):</p> <p><input checked="" type="checkbox"/> Is cross-disciplinary<sup>3</sup>.</p> <p><input type="checkbox"/> Is certified by a professional or accredited organization/governmental agency.</p> <p><input type="checkbox"/> Clearly leads to advanced specialization in a field.</p>
2c	<p><b>Affiliation.</b> Is the certificate affiliated with a degree program? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If "yes," include a brief statement of how it will complement the program. If it is not affiliated with a degree program, incorporate a statement as to how it will provide an opportunity for a student to gain knowledge or skills not already available at UK. (300 word limit)</p> <p><i>The DWBS is affiliated with the Department of Horticulture in the College of Agriculture, Food and Environment (CAFE). While programmatically affiliated in order to streamline its formation and due to the density of classes taught within the Department of Horticulture Department, the DWBS will complement the undergraduate BS program in Horticulture, Plant and Soil Science by providing additional opportunities for students already interested in these industries (for example, in wine-growing) to delve into the related areas of wine-making. Of course, the Department welcomes the engagement of many other departments in providing instruction and also welcomes students from any program at the University.</i></p>
2d	<p><b>Demand.</b> Explain the need for the new certificate (e.g. market demand and cross-disciplinary considerations). (300 word limit)</p> <p><i>Distillation, wine and brewing industries form a multi--billion dollar industry with a myriad of careers in science, engineering and the arts. Regionally, Kentucky is famous for bourbon production and in 2013 the industry surpassed 5 million barrels in over 40 distilleries worth more than \$8 billion/year. Current estimates suggest Kentucky employment may now number 10,000 within the bourbon industry alone. Further, approximately 25 new craft and full scale distillers opening in the coming year with a shortage of trained intellectual infrastructure identified recently as a major hurdle to growth (by the Kentucky Distillers Association Technical Committee Meeting). There are over 70 wineries that also demand trained and knowledgeable employees and a thriving craft beer movement has been established in the past 5--years. Despite Kentucky being a landmark destination for producers, few courses focused on this industry have</i></p>

<sup>3</sup> An undergraduate certificate must be cross-disciplinary and students must take courses in at least two disciplines, with a minimum of three credits to be completed in a second discipline.

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*been delivered in the past at UK. The proposed certificate pedagogy will engage an inter--disciplinary team that will align certificate enrollees with skills and knowledge of career options. Intellectual infrastructure will immediately benefit the career opportunities and serve a rapidly growing industry.*

2e **Target student population.** Check the box(es) that apply to the target student population.

Currently enrolled undergraduate students.

Post-baccalaureate students.

2f Describe the demographics of the intended audience. (150 word limit)

*The DWBS certificate program is designed to be applicable across many of the current UK academic majors. Most obviously, the DWBS would serve students in the colleges of Agriculture, Food and Environment; Arts & Sciences; Business & Economics; Education; and Engineering. However the DWBS is designed to also attract students from other colleges and units based on interest. The letters of support from chairs from departments within each college are presented in Appendix A.*

2g **Projected enrollment.** What are the enrollment projections for the first three years?

	Year 1	Year 2 (Year 1 continuing + new entering)	Year 3 (Yrs. 1 and 2 continuing + new entering)
Number of Students	10-20	20-30	30-100

2h **Distance learning (DL).** Initially, will any portion of the undergraduate certificate be offered via DL? Yes  No

If "Yes," please indicate below the percentage of the certificate that will be offered via DL.

1% - 24%     25% - 49%     50% - 74%     75 - 99%     100%

If "Yes," describe the DL course(s) in detail, including the number of required DL courses. (200 word limit)

**3. ADMINISTRATION AND RESOURCES**

3a **Administration.** Describe how the proposed certificate will be administered, including admissions, student advising, retention, etc. (150 word limit)

*The DWBS certificate will be administered collaboratively via a core advising group made up from CAFÉ, A&S, and Engineering. Representatives included are Horticulture (Dr. Seth DeBolt, director), Chemistry (Dr. Bert Lynn Co--- director), Rodney Andrews (Chemical and Materials Engineering), Melissa Newman (Animal and Food Sciences), Tricia Day (Retailing and Tourism Management), and Jeff Rice (Writing, Rhetoric and Digital Studies). The se faculty members will be responsible for recruitment, advising, and retention of students. Dr. DeBolt will serve as Program Director.*

3b **Resources.** What are the resource implications for the proposed certificate, including any projected budget needs? If multiple units/programs will collaborate in offering this certificate please discuss the resource contribution of each participating program. Letters of support must be included from all academic units that will commit resources to this certificate. Convert each letter to a PDF and append to the end of this form. (300 word limit)

*The goal is to adequately assign budgetary resources in line with expected individual class outcomes. The*

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	<p><i>DWBS certificate itself will not require any budget. The two core classes (Spirit Chemistry; and Distillation, and Wine and Brewing Science) are currently not listed as requiring a course fee. If travel fees are needed in the future, for such expenses as to cover the use of a bus to transport students to or from a field site, then a class fee will be requested for these individual classes. At present this is not anticipated, but subject to change in order to offer the best educational experience possible for the students.</i></p> <p><i>No resources are needed at the onset of this Certificate for staff. Specifically, the faculty Director of the Certificate Program will include this role in their Distribution of Effort (DOE). Notably, a \$100 course fee is charged of students in the PLS 389 (Wine Appreciation) course directed by Michael Barrett of Plant and Soil Sciences.</i></p> <p><i>If any further appreciation classes were to be developed with elements of beer or bourbon sensory analysis, then it is possible that these classes would require a course fee. Additionally, resources are required from specific colleges, most notably CAFE. The use of the Horticulture Research Farm’s wine research facility will be important. In the event that the DWBS certificate enrolls large numbers of students in the future, additional sections of PLS 336 (Introduction to Viticulture--Grape Production) or PLS 337 (Introduction to Enology: Wine Production; both directed by Jeff Wheeler) may be required. Either hiring a part-time instructor or providing faculty overload could become necessary.</i></p>
3c	<p><b>Faculty of Record.</b> The Faculty of Record consists of the certificate director and other faculty who will be responsible for planning and participating in the certificate program. Describe the process for identifying the certificate director. Regarding membership, include the aspects below. (150 word limit)</p> <ul style="list-style-type: none"> <li>• Selection criteria;</li> <li>• Whether the member is voting or non-voting;</li> <li>• Term of service; and</li> <li>• Method for adding/removing members.</li> </ul>
	<p><i>Faculty members who participate in the DWBS in instructional roles are thus to serve as members of the faculty of record, see Appendix 1 email confirmation: Crofcheck, Lynn, Rice, Barrett, Rice, Wheeler, Jackson, Newman, Andrews, DeBolt. Selection is based on instruction in DWBS and representation UK Colleges/Depts. All members of the faculty of record are eligible to vote. Replacement will be based on annual meeting voting and aim to maintain broad representation. After initial year, Director (DeBolt) and co-Director(s)(Lynn) will be chosen by affirmation of the core advisory group at the annual meeting; and anticipated to be a three-year commitment. Members of the core advisory group will be expected to serve for up to three years, in order to help the DWBS establish continuity. Beyond that time, a review of the function of the DWBS will be done in order to establish best practices in terms of leadership rotation. Faculty of record lists will be updated annually to include only faculty who remain actively involved in the DWBS.</i></p>
3d	<p><b>Advisory board.</b> Will the certificate have an advisory board<sup>4</sup>? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
	<p>If “Yes,” please describe the standards by which the faculty of record will add or remove members of the advisory board. (150 word limit)</p>
	<p>The faculty of record will identify stakeholders to provide input to the DWBS based on their interest in and knowledge of the educational outcomes of this certificate program. Advisory Board (AB) members will be chosen based on representing distillation, wine and brewing industries within the state of Kentucky. Their selection will be assessed a 3 year term and require annual participation. The AB will provide external input on the DWBS certificate. AB member will be removed on a voluntary process, or by the directors if their</p>

<sup>4</sup> An advisory board includes both faculty and non-faculty who advise the faculty of record on matters related to the program, e.g. national trends and industry expectations of graduates.

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	actions become in any way counterproductive to the effective functioning of the program as an educational vehicle.
	If “Yes,” please list below the <u>number</u> of each type of individual (as applicable) who will be involved in the advisory board.
	Faculty within the college who are within the home educational unit.
	Faculty within the college who are outside the home educational unit.
	Faculty outside the college who are within the University.
	Faculty outside the college and outside the University who are within the United States.
	Faculty outside the college and outside the University who are outside the United States.
	Students who are currently in the program.
	Students who recently graduated from the program.
8	Members of industry.
	Community volunteers.
	Other. Please explain:
8	<b>Total Number of Advisory Board Members</b>

**4. SUPPORT AND IMPACT**

4a	<b>Other related programs.</b> Identify other related UK programs and certificates and outline how the new certificate will complement these existing UK offerings. Statements of support from potentially-affected academic unit administrators need to be included with this proposal submission. Convert each statement to a PDF and append to the end of this form. <i>(250 word limit)</i>
	<i>To the best of our knowledge, there are no related programs (other than the undergraduate program in Horticulture, Plant and Soil Science) at the University of Kentucky which would be affected by the emergence of the DWBS certificate program. Bob Houtz, Chair of the Department of Horticulture, has provided a letter of support for the DWBS certificate on behalf of his faculty members.</i>
4b	<b>External course utilization support.</b> You must submit a letter of support from each appropriate academic unit administrator from which individual courses are taken. Convert each letter to a PDF and append to the end of this form.

**5. ADMISSIONS CRITERIA AND CURRICULUM STRUCTURE**

5a	<b>Admissions criteria.</b> List the admissions criteria for the proposed certificate. <i>(150 word limit)</i>		
	<i>All University of Kentucky students who are in good academic standing are eligible to enroll in the DWBS certificate.</i>		
5b	<b>Curricular structure.</b> Please list the required and elective courses below.		
Prefix & Number	Course Title	Credit Hrs	Course Status <sup>5</sup>

<sup>5</sup> Use the drop-down list to indicate if the course is an existing course that will not be changed, if the course is an existing course that will be changed, or if the course is a new course.

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A&S 306	<i>Spirit Chemistry, Required</i>	3	New
PLS 335	<i>Distillation, Wine and Brewing Science, Required</i>	3	New
AEN/TSM 341	<i>Brewing Science and Technology</i>	3	New
FSC 430	<i>Sensory Analysis of Foods</i>	3	Existing
FSC 538	<i>Food Fermentation and Thermal Processing</i>	4	Existing
FSC 540	<i>Food Sanitation</i>	3	Existing
PLS 336, PLS 337	<i>Introduction to Viticulture--Grape Production; Introduction to Enology: Wine Production</i>	3	New
HMT 420	<i>Kentucky Bourbon Hospitality and Tourism</i>	3	New
PLS 389	<i>Wine Appreciation</i>	3	New
PLS 395 or 399	<i>Special Problems in Plant and Soil Science or Experiential Learning in Plant and Soil Science</i>	3	Existing
WRD 225	<i>Craft Writing</i>	2	New

**Total Credit Hours:** 12

5c	Are there any other requirements for the certificate? If "Yes," note below. (150 word limit)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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*All certificate students must complete both A&S 306 and PLS 335 with a "C" grade or higher plus a minimum of six additional credits chosen from the above course listing. The University's breadth requirement for undergraduate certificate students will be satisfied through the two required courses. Note that only students who have completed or who are completing a four-year degree are eligible to receive this certificate. No more than nine credits taken toward this certificate can be used to satisfy the requirements of another degree, minor or certificate, exclusive of free or unrestricted electives.*

5d	Is there any other narrative about the certificate that should be included in the Bulletin? If "Yes," please note below. (300 word limit)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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*Most Distillation, Wine and Brewing Studies certificate courses have no prerequisites. Note that some certificate courses (particularly those in the food science area) have extensive prerequisites. Students outside of the food science major should be clear about prerequisites before attempting to enroll in these courses.*

**6. ASSESSMENT**

6a	<b>Student learning outcomes.</b> Please provide the student learning outcomes for this certificate. List the knowledge, competencies, and skills (learning outcomes) students will be able to do upon completion. (Use action verbs, not simply "understand.") (250 word limit)
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- *Students will be able to define key themes within the following fields of distillation, wine and brewing industries from a broad interdisciplinary perspective: 1) scientific/engineering, 2) marketing, 3) distribution and 4) economic.*
- *Students will be able to articulate how each key theme influences the others to create effective products.*
- *Students will identify and describe the key agricultural commodities associated with distillation, wine and brewing industries as well as the process of how to convert them into products via fermentation.*
- *Students will document the chemistry behind key processes as the cornerstone to quality*



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	<p><i>production.</i></p> <ul style="list-style-type: none"> <li>• <i>Students will engage in an application of integrated thinking in a functional context via the 395 series.</i></li> <li>• <i>Students will perform strategic assessment in local, regional, national, or international distillation, wine brewing industries related to career outlooks.</i></li> <li>• <i>Students will demonstrate their understanding through written and oral presentations.</i></li> <li>• <i>Students will complete a final integrated distillation, wine and brewing industry assessment project that will allow them to demonstrate their understanding for fermented product development in the PLS 335 class as an internal assessment from beginning to end (class specific).</i></li> <li>• <i>Students will be capable of outlining the brief history of distilled products, wine and brewing around the world and in the United States.</i></li> <li>• <i>Above all, students gaining this certificate will be able to recognize key problems that arise in each of the distillation, wine and brewing industries and have the resources and knowledge to present solutions.</i></li> </ul>
6b	<p><b>Student learning outcome (SLO) assessment.</b> How and when will student learning outcomes be assessed? Please map proposed measures to the SLOs they are intended to assess. Do not use grades or indirect measures (e.g. focus groups, surveys) as the sole method. Measures might include the aspects below. (300 word limit)</p> <ul style="list-style-type: none"> <li>• Course-embedded assessment (capstone project, portfolios, research paper); and</li> <li>• Test items (embedded test questions, licensure/certification testing, nationally or state-normed exams).</li> </ul>
	<p><i>Students will write a statement upon entering the undergraduate certificate with a focus on their skills and knowledge of wine, brewing and distillation industries. A key theme is that students gaining this certificate will be able to recognize key problems that arise in each of the DWBS industries and have the resources and knowledge to present solutions. The tools they need to do so are often times complex and require the capacity to access information relevant to specific problems. Therefore, a learning outcome of the distillation, wine and brewing science pillar is that students will understand and be able to apply core concepts about how these commodities are derived, the process of fermentation, the flavor profiles, distribution, legal challenges and how to develop a range of products. This understanding can be communicated in a written and oral manner in a variety of contexts. Taken to problem solving, during the required classes, emphasis is placed on technical and market problems that frequently arise broadly in the Wine, Brewing and Distillation Science class (PLS 335 with Dr. DeBolt) and in the Spirit Chemistry class (A&amp;S 306 with Dr. Lynn). Students will be assessed throughout courses in these pillars in both a formative and summative manner through written exams and projects demonstrating their competencies. Formatively, courses in each of the pillars will have assignments that gauge nuances of the learning outcome of that pillar. In addition, students will be required to write a reflective assignment during completion of the Certificate which will again focus on their problem solving, analytical skills and knowledge of distillation, wine and brewing industries. During coursework, students will produce essays and presentations that will form a summative, final portfolio.</i></p>
6c	<p><b>Certificate outcome assessment<sup>6</sup>.</b> Describe program evaluation procedures for the proposed program. Include how the faculty of record will determine whether the program is a success or a failure. List the benchmarks, the assessment tools, and the plan of action if the program does not meet its objectives. (250</p>

<sup>6</sup> This is a plan of how the certificate will be assessed, which is different from assessing student learning outcomes.

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	word limit)
	<p><i>We will measure success as an undergraduate certificate program through the following metrics:</i></p> <p><i>(1) Record of increased student enrollment;</i></p> <p><i>(2) Record of successful student completion;</i></p> <p><i>(3) Enrollment of students from a variety of majors and colleges;</i></p> <p><i>(4) Considering the interdisciplinary nature of the certificate we will track and consider a 10% employment rate in the area of Distillation, Wine and Brewing industries to be a notable success. With the breadth of career opportunities arising within the beverage industry and the capacity for this certificate to broaden the scope of a given students undergraduate major, a 10% employment rate would probably sustain a strong demand for graduates.</i></p> <p><i>The faculty of record will meet on an annual basis to evaluate progress toward the above-listed goals. If the DWBS certificate is falling short of these target, the faculty will discuss proposals to strengthen the curriculum and to enhance student performance. As always, industry consultation will continue to remain important.</i></p>

**7. APPROVALS/REVIEWS**

Information below about the review process does not supersede the requirement for individual letters of support.

	Reviewing Group Name	Date Approved	Contact Person Name/Phone/Email
7a	(Within College)		
	<i>DWBS Steering Committee</i>	<i>2/14/14</i>	<i>Seth DeBolt / 7-8654 / seth.debolt@uky.edu</i>
	<i>Department of Horticulture</i>	<i>2/26/14</i>	<i>Bob Houtz / 7-1982 / rhoutz@uky.edu</i>
	<i>Undergraduate Steering Committee, College of Agriculture, Food and Environment</i>	<i>9/12/14</i>	<i>Larry Grabau / 7-3469 / lgrabau@uky.edu</i>
			/ /
7b	(Collaborating and/or Affected Units)		
	<i>Department of Animal and Food Sciences</i>	<i>10/7/14</i>	<i>Bob Harmon / 7-2686 / rharmon@email.uky.edu</i>
	<i>Department of Biosystems and Agricultural Engineering</i>	<i>9/25/14</i>	<i>Sue Nokes / 7-3000, ext., 128 / sue.nokes@uky.edu</i>
	<i>Department of Chemistry</i>	<i>4/20/14</i>	<i>Mark Meier / 7-4741 / meier@uky.edu</i>
	<i>Department of</i>	<i>9/24/14</i>	<i>Doug Kalika / 7-5507 / kalika@enr.uky.edu</i>

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	<i>Chemical and Materials Engineering</i>		
	<i>Department of Plant and Soil Sciences</i>	<i>8/25/14</i>	<i>Todd Pfeiffer / 218-0709 / tpfeiffe@uky.edu</i>
	<i>Department of Retailing and Tourism Management</i>	<i>10/13/14</i>	<i>Vanessa Jackson / 7-4917 / Vanessa.Jackson@uky.edu</i>
	<i>Department of Writing, Rhetoric and Digital Studies</i>	<i>9/22/14</i>	<i>Jeff Rice / 7-7002 / j.rice@uky.edu</i>
			/ /
			/ /
<b>7c</b>	<b>(Senate Academic Council)</b>	<b>Date Approved</b>	<b>Contact Person Name</b>
	Health Care Colleges Council (if applicable)		
	Undergraduate Council		

**From:** Barrett, Michael mbarrett@uky.edu  
**Subject:** RE: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 12:12 PM  
**To:** DeBolt, Seth sdebo2@uky.edu, Crofcheck, Czarena L crofcheck@uky.edu, Rice, Jeffrey j.rice@uky.edu, Jackson, Vanessa P vanessa.jackson@uky.edu, Andrews, Rodney J rodney.andrews@uky.edu

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Seth – I agree to be a faculty member of record. Mike

Michael Barrett  
University of Kentucky  
Plant and Soil Sciences Department  
409 Plant Science Building  
Lexington, KY 40456-0312  
859-218-0712

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**From:** DeBolt, Seth  
**Sent:** Wednesday, April 15, 2015 10:25 AM  
**To:** Crofcheck, Czarena L; Rice, Jeffrey; Barrett, Michael; Jackson, Vanessa P; Andrews, Rodney J  
**Subject:** Re: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Colleagues \_ If you can provide a quick email of support today that would be great, that way I can collect them and get them back to the Senate quickly. Thank you, Seth

On Apr 15, 2015, at 8:24 AM, Seth DeBolt <sdebo2@uky.edu> wrote:

Dear colleagues,

The Senate council have reviewed the document and have attached the comments below. I understand these as meaning they are interested in two things 1) expanding the faculty of record. They also want evidence for how they were appointed and will be replaced if necessary. If you agree, I suggest that we amend this section to reflect everyone being the faculty of record and that WE were selected based on instructional responsibility and engagement with a different set of students from around our University. Writing, Engineering, Ag, Chem etc. I suggest a metric for replacement be based on annual meeting and maintaining representation from the various colleges, with the opportunity for those colleges/departments not represented to have a member of the core advisory if appropriate based on instructional interest.

2) gaining approval from the advisory group (you) that you agree to such a role. As they say, please provide evidence (email confirmation is fine, included in the proposal) that those listed agree to be listed as faculty of record.

Please email if you agree with being faculty of record and if you agree with my response to point 1.

Many thanks, Seth

**From:** Jeff Rice j.rice@uky.edu  
**Subject:** Re: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 11:31 AM  
**To:** DeBolt, Seth sdebo2@uky.edu, Crofcheck, Czarena L crofcheck@uky.edu, Barrett, Michael mbarrett@uky.edu, Jackson, Vanessa P vanessa.jackson@uky.edu, Andrews, Rodney J rodney.andrews@uky.edu

I agree with being on faculty of record.

Jeff

On 4/15/15 10:24 AM, DeBolt, Seth wrote:

Colleagues \_ If you can provide a quick email of support today that would be great, that way I can collect them and get them back to the Senate quickly. Thank you, Seth

On Apr 15, 2015, at 8:24 AM, Seth DeBolt <sdebo2@uky.edu> wrote:

Dear colleagues,

The Senate council have reviewed the document and have attached the comments below. I understand these as meaning they are interested in two things 1) expanding the faculty of record. They also want evidence for how they were appointed and will be replaced if necessary. If you agree, I suggest that we amend this section to reflect everyone being the faculty of record and that WE were selected based on instructional responsibility and engagement with a different set of students from around our University. Writing, Engineering, Ag, Chem etc. I suggest a metric for replacement be based on annual meeting and maintaining representation from the various colleges, with the opportunity for those colleges/departments not represented to have a member of the core advisory if appropriate based on instructional interest.

2) gaining approval from the advisory group (you) that you agree to such a role. As they say, please provide evidence (email confirmation is fine, included in the proposal) that those listed agree to be listed as faculty of record.

Please email if you agree with being faculty of record and if you agree with my response to point 1.

Many thanks, Seth

---

Seth DeBolt, Professor, Horticulture, University of Kentucky  
Email: [sdebo2@uky.edu](mailto:sdebo2@uky.edu) Phone: 859 257 8654

Begin forwarded message:

**From:** "Grabau, Larry" <[larry.grabau@uky.edu](mailto:larry.grabau@uky.edu)>  
**Subject:** RE: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate In Distillation, Wine and Brewing Studies  
**Date:** April 13, 2015 at 5:32:46 PM EDT  
**To:** "DeBolt, Seth" <[sdebo2@uky.edu](mailto:sdebo2@uky.edu)>

I believe, Seth, that you ask your "core advisory group" (see the certificate document) to identify faculty they want to engage (everyone?) and then send out an email invitation to all those invited. Their acceptance would be their positive responses by email. Glad to discuss.

**From:** DeBolt, Seth  
**Sent:** Monday, April 13, 2015 4:06 PM  
**To:** Grabau, Larry  
**Subject:** FW: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Advice on how best to deal with this? Make everyone faculty of record

Sent from my Verizon 4G LTE Smartphone

**From:** Crofcheck, Czarena L crofcheck@uky.edu  
**Subject:** RE: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 11:26 AM  
**To:** DeBolt, Seth sdebo2@uky.edu

Greetings Seth,

I believe your approach is right on target to addressing this issue. I am fully committed to this certificate and would be happy to be a faculty of record for the certificate.

Please let me know if you need anything else from me.

Cheers,  
Czar

\*\*\*\*\*

Czarena Crofcheck, PhD, PE  
Associate Professor and  
Director of Undergraduate Studies  
Biosystems & Agricultural Engineering  
University of Kentucky  
213 CE Barnhart Building  
Lexington, KY 40546  
Voice: (859) 218-4349  
Fax: (859) 257-5671  
Email: [crofcheck@uky.edu](mailto:crofcheck@uky.edu)

ALSO Past President of IBE  
<http://www.ibe.org/>

ALSO Co-Chair of the  
Kentucky Girls STEM Collaborative  
<http://www.kygirlsstem.org/>

\*\*\*\*\*

**From:** DeBolt, Seth  
**Sent:** Wednesday, April 15, 2015 8:25 AM  
**To:** Crofcheck, Czarena L; Lynn, Bert C; Rice, Jeffrey; Barrett, Michael; Wheeler, Jeffrey M; Jackson, Vanessa P; Newman, Melissa C; Andrews, Rodney J  
**Subject:** Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Dear colleagues,

The Senate council have reviewed the document and have attached the comments

**From:** Lynn, Bert C bclynn2@uky.edu  
**Subject:** DWBS core faculty  
**Date:** April 15, 2015 at 10:53 AM  
**To:** DeBolt, Seth sdebo2@uky.edu

---

Dear Dr. DeBolt: I agree to be listed as "faculty of record" for the DWBS certificate program. This is an exciting program and I look forward to working with you to make it grow.

Thanks,  
Bert

Bert C. Lynn  
Professor, Chemistry  
Director, UK Mass Spectrometry Facility  
University of Kentucky  
A053 ASteCC Building  
Lexington, KY 40506-0286

Phone: 859-218-6529  
FAX: 859-257-2489  
<http://www.research.uky.edu/ukmsf>

**From:** Andrews, Rodney J rodney.andrews@uky.edu  
**Subject:** Certificate in Distillation, Wine and Brewing  
**Date:** April 15, 2015 at 10:43 AM  
**To:** DeBolt, Seth sdebo2@uky.edu

---

Dear Professor DeBolt,

This email is to confirm my strong support of this program and willingness to be a member of the faculty of record for this program.

Cheers,  
Rodney

Rodney Andrews, PhD PE  
Assoc Professor of Chemical Engineering  
Assoc Professor of Mechanical Engineering



**From:** Jackson, Vanessa P [vanessa.jackson@uky.edu](mailto:vanessa.jackson@uky.edu)  
**Subject:** RE: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 10:34 AM  
**To:** DeBolt, Seth [sdebo2@uky.edu](mailto:sdebo2@uky.edu)

I agree to be on the faculty of record for this project. Vanessa Jackson

**From:** DeBolt, Seth  
**Sent:** Wednesday, April 15, 2015 10:25 AM  
**To:** Crofcheck, Czarena L; Rice, Jeffrey; Barrett, Michael; Jackson, Vanessa P; Andrews, Rodney J  
**Subject:** Re: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Colleagues \_\_ If you can provide a quick email of support today that would be great, that way I can collect them and get them back to the Senate quickly. Thank you, Seth

On Apr 15, 2015, at 8:24 AM, Seth DeBolt <[sdebo2@uky.edu](mailto:sdebo2@uky.edu)> wrote:

Dear colleagues,

The Senate council have reviewed the document and have attached the comments below. I understand these as meaning they are interested in two things 1) expanding the faculty of record. They also want evidence for how they were appointed and will be replaced if necessary. If you agree, I suggest that we amend this section to reflect everyone being the faculty of record and that WE were selected based on instructional responsibility and engagement with a different set of students from around our University. Writing, Engineering, Ag, Chem etc. I suggest a metric for replacement be based on annual meeting and maintaining representation from the various colleges, with the opportunity for those colleges/departments not represented to have a member of the core advisory if appropriate based on instructional interest.

2) gaining approval from the advisory group (you) that you agree to such a role. As they say, please provide evidence (email confirmation is fine, included in the proposal) that those listed agree to be listed as faculty of record.

Please email if you agree with being faculty of record and if you agree with my response to point 1.

Many thanks, Seth

-----  
Seth DeBolt, Professor, Horticulture, University of Kentucky  
Email: [sdebo2@uky.edu](mailto:sdebo2@uky.edu) Phone: 859 257 8654

Begin forwarded message:

**From:** Wheeler, Jeffrey M <jeff.wheeler@uky.edu>  
**Subject:** Re: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 9:34 AM  
**To:** DeBolt, Seth <sdebo2@uky.edu>

I agree with being faculty of record and agree to your response to point 1.

Sent from my iPad

On Apr 15, 2015, at 8:24 AM, DeBolt, Seth <sdebo2@uky.edu> wrote:

Dear colleagues,

The Senate council have reviewed the document and have attached the comments below. I understand these as meaning they are interested in two things 1) expanding the faculty of record. They also want evidence for how they were appointed and will be replaced if necessary. If you agree, I suggest that we amend this section to reflect everyone being the faculty of record and that WE were selected based on instructional responsibility and engagement with a different set of students from around our University. Writing, Engineering, Ag, Chem etc. I suggest a metric for replacement be based on annual meeting and maintaining representation from the various colleges, with the opportunity for those colleges/departments not represented to have a member of the core advisory if appropriate based on instructional interest.

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Please email if you agree with being faculty of record and if you agree with my response to point 1.

Many thanks, Seth

-----  
Seth DeBolt, Professor, Horticulture, University of Kentucky  
Email: [sdebo2@uky.edu](mailto:sdebo2@uky.edu) Phone: 859 257 8654

Begin forwarded message:

**From:** "Grabau, Larry" <larry.grabau@uky.edu>  
**Subject:** RE: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 13, 2015 at 5:32:46 PM EDT  
**To:** "DeBolt, Seth" <sdebo2@uky.edu>

I believe, Seth, that you ask your "core advisory group" (see the certificate document) to identify faculty they want to engage (everyone?) and then send out an email invitation to all those invited. Their acceptance would be their positive responses by email. Glad to discuss.

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**From:** DeBolt, Seth  
**Sent:** Monday, April 13, 2015 4:06 PM  
**To:** Grabau, Larry  
**Subject:** FW: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Advice on how best to deal with this? Make everyone faculty of record

Sent from my Verizon 4G LTE Smartphone

----- Original Message -----

**Subject:** Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Sent:** Apr 13, 2015 3:43 PM  
**From:** "Schroeder, Margaret" <m.mohr@uky.edu>

**From:** Newman, Melissa C mnewman@uky.edu  
**Subject:** Re: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 15, 2015 at 8:36 AM  
**To:** DeBolt, Seth sdebo2@uky.edu

Sounds great to me congratulations!  
Melissa Newman

Sent from my iPhone

On Apr 15, 2015, at 08:24, DeBolt, Seth <sdebo2@uky.edu> wrote:

Dear colleagues,

The Senate council have reviewed the document and have attached the comments below. I understand these as meaning they are interested in two things 1) expanding the faculty of record. They also want evidence for how they were appointed and will be replaced if necessary. If you agree, I suggest that we amend this section to reflect everyone being the faculty of record and that WE were selected based on instructional responsibility and engagement with a different set of students from around our University. Writing, Engineering, Ag, Chem etc. I suggest a metric for replacement be based on annual meeting and maintaining representation from the various colleges, with the opportunity for those colleges/departments not represented to have a member of the core advisory if appropriate based on instructional interest.

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Please email if you agree with being faculty of record and if you agree with my response to point 1.

Many thanks, Seth

---  
Seth DeBolt, Professor, Horticulture, University of Kentucky  
Email: [sdebo2@uky.edu](mailto:sdebo2@uky.edu) Phone: 859 257 8654

Begin forwarded message:

**From:** "Grabau, Larry" <larry.grabau@uky.edu>  
**Subject:** RE: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Date:** April 13, 2015 at 5:32:46 PM EDT  
**To:** "DeBolt, Seth" <sdebo2@uky.edu>

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**From:** DeBolt, Seth  
**Sent:** Monday, April 13, 2015 4:06 PM  
**To:** Grabau, Larry  
**Subject:** FW: Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies

Advice on how best to deal with this? Make everyone faculty of record

Sent from my Verizon 4G LTE Smartphone

----- Original Message -----

**Subject:** Fwd: New Cmte Item SAPC\_New Undergraduate Certificate in Distillation, Wine and Brewing Studies  
**Sent:** Apr 13, 2015 3:43 PM

Appendix A.



University  
of Kentucky

College of Agriculture, Food and Environment

**Robert L. Houtz, Professor**

*Chair, Department of Horticulture  
Plant Physiology/Biochemistry/*

*Molecular Biology Program  
N-318 Agricultural Science Building-North*

*Lexington, Kentucky 40546-0091*

*Business: (859) 257-1982 Fax: (859) 257-2859  
e-mail: rhoutz@uky.edu*

February 26, 2014

Dr. Seth DeBolt, Director  
Undergraduate Certificate in Distillation, Wine and Brewing Studies.  
Department of Horticulture  
309 Plant Science Building  
University of Kentucky  
Campus

Dear Dr. DeBolt:

This letter is to confirm that on Friday February 21st, 2014, faculty in the Department of Horticulture unanimously approved the new Undergraduate Certificate in Distillation, Wine and Brewing Studies. The department is proud to have three of the proposed courses in this program located in our department and acknowledges that the program does not adversely affect our core program resources.

I am looking forward to the development of this interdisciplinary program, and the benefit that it will bring to those involved in these industries in the commonwealth of Kentucky. Thanks for your leadership Seth.

Sincerely,

Robert L. Houtz  
Professor and Chair



October 7, 2014

College of Agriculture,  
Food and Environment  
Animal and Food Sciences  
907 W.P. Garrigus Building  
Lexington, KY 40546-0215  
859 257-2686  
fax 859 257-2534  
www.uky.edu

Dr. Seth DeBolt  
Distillation, Wine and Brewing Studies Undergraduate Certificate Program  
Department of Horticulture  
309 Plant Science Building  
University of Kentucky  
Lexington, KY 40506-0312

Dear Dr. DeBolt:

The purpose of this letter is to confirm that the Food Science faculty in the Department of Animal and Food Sciences support our department's participation in the new Wine Brewing and Distillery Science Certificate program that you and your department are initiating. The Food Science program is pleased to participate by offering the following courses as options for your program: FSC 538 Food Fermentation and Thermal Processing, FSC 540 Food Sanitation, and FSC 430 Sensory Evaluation of Foods. We currently offer these courses that are slated to be part of the certificate program, and additional students will not adversely affect the courses or require additional resources, unless the response to the certificate program is overwhelming.

I am looking forward to watching the growth of this interdisciplinary program, and the opportunity to collaborate more closely with Horticulture and the other disciplines involved in the certificate. Please let me know if there is anything further our department can do to assist you in this endeavor.

Sincerely,

A handwritten signature in cursive script that reads "Robert J. Harmon".

Robert J. Harmon  
Professor and Chair



University  
of Kentucky

College of Agriculture,  
Food and Environment

DEPARTMENT OF BIOSYSTEMS AND  
AGRICULTURAL ENGINEERING  
128 Charles E. Barnhart Building  
Lexington, Kentucky 40546-0276  
Office (859) 257-3000 Ext. 128

September 25, 2014

Dr. Seth DeBolt  
Distillation, Wine and Brewing Studies Undergraduate Certificate Program  
Department of Horticulture  
309 Plant Sciences Building  
University of Kentucky  
Campus

Dear Dr. DeBolt;

The purpose of this letter is to confirm that on Monday, April 7, 2014, faculty in the Department of Biosystems and Agricultural Engineering unanimously approved our department's participation in the new certificate program in Distillation, Wine and Brewing Studies that you and your department are initiating. Our department is pleased to participate with at least one course, with the prospect of teaching others depending on resources available. We are currently offering the course that is slated to be part of the certificate program, and additional students will not adversely affect the course or require additional resources, unless the response to the certificate program is overwhelming.

I am looking forward to watching the growth of this interdisciplinary program, and the opportunity to collaborate more closely with Horticulture and the other disciplines involved in the certificate. Please let me know if there is anything further our department can do to assist you in this endeavor.

Sincerely,

*Sue E. Nokes*

Sue E. Nokes, Ph.D., P.E.  
Professor and Chair



College of Arts and Sciences

Department of Chemistry  
Chemistry-Physics Building  
Lexington, KY 40506-0055

859 257-4741

fax 859 323-1069

[www.chem.uky.edu](http://www.chem.uky.edu)

April 20, 2014

Prof. Seth DeBolt  
Wine, Brewing, and Distillation Sciences Certificate Program  
Department of Horticulture  
309 Plant Sciences Bldg  
University of Kentucky  
Lexington, KY 40506

Dear Prof. DeBolt

The Department of Chemistry is happy to support the establishment of the undergraduate certificate in Distillation, Wine, and Brewing Studies. As you know, we have initiated a new course, currently called *Spirit Chemistry*, which we believe will have broad appeal to undergraduates and will help to encourage students to take other courses in the WDBS program. Additional courses may be developed as the program evolves and student interests become clear.

This is a timely and exciting new program. I think it is great to establish a program that provides students an opportunity to learn more about the signature industry of Kentucky and about some of our rapidly growing industries.

Please let me know how we can help to grow this program.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark S. Meier". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Mark S. Meier  
Professor and Chair

see  
blue.



UNIVERSITY OF KENTUCKY

**Department of Chemical and  
Materials Engineering**

*177 Anderson Hall  
Lexington, KY 40506-0046  
(859) 257-5507  
kalika@engr.uky.edu*

September 24, 2014

Dr. Seth DeBolt  
Undergraduate Certificate in Distillation, Wine and Brewing Studies  
Department of Horticulture  
309 Plant Sciences Building  
University of Kentucky

The Department of Chemical and Materials Engineering is pleased to support the establishment of the interdisciplinary Undergraduate Certificate in Distillation, Wine and Brewing Studies. We anticipate that this certificate will be of significant interest to our undergraduates, and that the coursework and goals associated with the certificate will align well with the requirements of the chemical engineering undergraduate curriculum.

Sincerely,

*Doug Kalika*

Douglass S. Kalika, Professor and Chair  
Department of Chemical and Materials Engineering





College of Agriculture,  
Food and Environment  
Department of Plant &  
Soil Sciences  
105 Plant Science Building  
Lexington, KY 40546-0312  
Phone: (859) 218-0709  
[www.ca.uky.edu/pss](http://www.ca.uky.edu/pss)

August 25, 2014

Dr. Seth DeBolt  
Distillation, Wine and Brewing Studies Undergraduate Certificate Program  
Department of Horticulture  
309 Plant Science Building

Dear Seth:

The Department of Plant and Soil Sciences extends its support for the establishment of the interdisciplinary undergraduate certificate in Distillation, Wine and Brewing Studies. There is student interest in these topics, so the development of this certificate is timely. Dr. Mike Barrett, in our department, has been teaching Wine Appreciation (approval as PLS 389 has been requested) in both the fall and spring semesters with capacity enrollment. The approval of the course fee associated with PLS 389 will allow teaching the course without a demand from the department for funding of the course supplies. We look forward to our department's and our students' participation in the certificate program.

Sincerely,

A handwritten signature in cursive script that reads "Todd Pfeiffer".

Todd Pfeiffer  
Professor and Chair

see blue.



College of Agriculture,  
Food and Environment  
Retailing and Tourism Management  
318 Erikson Hall  
Lexington, KY 40506-0050  
859 257-4917  
fax 859 257-1275  
www.uky.edu

October 13, 2014

Dr. Seth DeBolt, Director  
Undergraduate Certificate in Distillation, Wine and Brewing Studies  
Department of Horticulture  
309 Plant Science Building  
University of Kentucky  
Campus

Dear Dr. DeBolt:

This letter is to confirm that faculty and Chair of the Retailing and Tourism Management department approve the new Undergraduate Certificate in Distillery, wine and Brewing Studies. The department is happy to have our course as part of this program.

I am looking forward to the development of this interdisciplinary program.

Sincerely,

A handwritten signature in cursive script that reads "V. Jackson".

Vanessa P. Jackson, Professor  
Chair, Retailing & Tourism Management  
University of Kentucky  
317 Erikson Hall  
Lexington, KY 40506-0050  
(859) 257-7633  
Fax (859) 257-1275  
e-mail: [Vanessa.jackson@uky.edu](mailto:Vanessa.jackson@uky.edu)



Division of Writing, Rhetoric,  
and Digital Media  
1353 Patterson Office Tower  
Lexington, KY 40506-0027  
859.257.7002  
fax 859.323-1072  
wr.d.as.uky.edu

September 22, 2014

Professor Seth DeBolt  
Undergraduate Certificate in Distillation, Wine and Brewing Studies  
Department of Horticulture  
309 Plant Studies Building

Dear Professor DeBolt:

The Department of Writing, Rhetoric and Digital Studies enthusiastically supports the establishment of the Undergraduate Certificate in Distillation, Wine and Brewing Studies. We are excited to be involved with the creation of this certificate and to be able to offer writing courses taught by Professors Jeff Rice and Jan Fernheimer. The inclusion of writing courses specific to the distillation, wine, and beer industries makes this certificate well rounded and applicable to student employment opportunities upon graduation.

I am very supportive of your work to create an interdisciplinary certificate that will prepare students for employment in Kentucky industries vital to the state's economy and growth. Please let WRD know if it can be involved further in this certificate.

Sincerely,

Jeff Rice  
Professor and Interim Chair  
Writing, Rhetoric and Digital Studies