Graduate Faculty Meeting Minutes
November 9, 2015, 10:00 am, AGLS 129

Present: Barry Boyd, Gary Briers, Deb Dunsford, Julie Harlin, Lori Moore, Theresa Murphrey, Summer Odom, Manuel Pina, Tobin Redwine, Tracy Rutherford, Robert Strong, Andy Vestal, Gary Wingenbach, Tim Murphy, Clarice Fulton

Not Present: Holli Archer, James Christiansen, Scott Cummings, Kim Dooley, Chanda Elbert, Jack Elliot, James Lindner, Billy McKim, John Rayfield, Jeff Ripley, Glen Shinn, Jennifer Strong

Action/Discussion Items

1) Approval of Minutes from the October meeting – Tim Murphy
   Motion was made by Deb Dunsford, Second by Julie Harlin, to "Approve the October minutes as distributed." Motion passed unanimously.

2) Graduate Admission Results – Tim Murphy
   Clarice provided the results of the October 1 Admission review – All admitted with the exception of one. Decision letters were mailed out on Nov. 10.

3) Graduate Stipends/Assigning Teaching Assistants – Tim Murphy

   This item was discussed during the last meeting. All of the previous solutions were reviewed and discussed. No solution was clearly supported. The default solution is in place for Spring. No changes in stipends. Tuition support is not provided for Departmentally-Funded Masters-Level Assistantships.

   For future offers, another option was for faculty requesting Departmentally-Funded Graduate Assistant support, for any reason including teaching, to submit a proposal justifying the amount of support required with a clear Statement of Work and plans for evaluation. A form could easily be created in Qualtrics estimating the number of hours; including examples of graded assignments; rubrics, career competencies developed during the assistantship, etc.

   In addition, Dr. Murphy will explore the option to pay GA's hourly. It may be more complex that it would appear. It's possible they would be reclassified. Hourly student employees need only be enrolled, avoiding the 9-credit hour minimum requirement. They would not be benefits-eligible (e.g the students would need to pay their own insurance).

   There were some questions about DE Differential Tuition. This Funding is generated through DE Differential Tuition. Some is retained by the Dean, some returns to ALEC. This funding can be used to hire instructors, staff, assistants, or advisors. We could request these funds for GTAs.

4) Graduate Course Rotation Changes – Tim Murphy
   Dr. Elliot has reviewed historical graduate course enrollment, and has proposed changes to the Graduate Course Rotation. The proposed changes were distributed at this meeting and some edits were proposed. The updated rotation is attached as part of the minutes of this meeting and attached to the minutes of the Department meeting. In addition, the Five Year Graduate Program Course Rotation is sent out as part of the Graduate Faculty Meeting Minutes every month. This information is provided for all faculty to review as a planning document for teaching load and upcoming course offerings. It is suggested that faculty review these documents for accuracy each month.

   A suggestion was made to create two separate course rotation documents, one without steward listed. The document with steward listed is only provided for faculty information, so faculty know who to approach for syllabi if interested in teaching. The document distributed to students on the department web page and does not include steward information.

   The Semester Course Rotation, Stewardship of Courses, and the Five Year Course Rotation will on the agenda for the next meeting in January.

<u>Old Business</u>

<u>New Business</u>

<u>Informational Items</u>

<u>Graduate Faculty Meeting Appendices (provided each month):</u>
1) Proposed Graduate Course Rotation/Steward (Attachment A)
2) Graduate Admission Criterion Score Calculation/GRE Percentile Rankings (Attachment B)
3) Five Year Course Rotation (Attachment C)
4) Graduate Course Research Tools Sequence (Attachment D)

Travel Request Form Deadlines

Domestic (30 days prior to trip):   e.g. travel January 1, 2015 due by December 1, 2015
International (60 days prior to trip):   e.g. travel February 1, 2015 due by December 1, 2015

Upcoming Events/Meetings

November 11, 2015	Departmental Mtg, 2:15 pm, AGLS 129
November 16-20, 2015	ACTER/ACTE, New Orleans, LA
November 26-27, 2015	Thanksgiving Holiday
December 10, 2015	Departmental Mtg, 7:45 breakfast, 8:15 mtg, AGLS 129
December 24-January 1, 2015	Christmas Break

Future Graduate Faculty
TBA

Department of Agricultural Leadership, Education, & Communications
Graduate Course Rotation

o = odd years; e = even years; Green = D@D rotation; # = eLearning Cert courses; * = Leadership Cert courses

Fall Course and Title		Steward
ALEC 602 (o, e)	Advanced Instructional Design in Agricultural Science	??
ALEC 605 (o, e)	Facilitating Complete Secondary Agricultural Science Programs	??
ALEC 606 (o, e) *	Foundations of Leadership Theory	Elbert
ALEC 608 (o, e) *	Leadership of Volunteers	Boyd
ALEC 610 (o, e) #	Principles of Adult Education (Web-based)	Lindner
ALEC 611 (o, e) #	Advanced Methods in Distance Education (Web-based)	Dooley
ALEC 615 (o, e)	Philosophy of Agricultural Education (Web-Enhanced)	Murphy
ALEC 616 (o, e) *	Facilitation of Leadership Programs	Odom
ALEC 623 (o, e)	Survey of Evaluation Strategies for Agriculture (Campus & WBased)	Murphrey
ALEC 624 (o, e)	Developing Funded Research Projects	Pina
ALEC 631 (o, e)	Development and Planning of Community Education Programs	Cummings
ALEC 640 (o, e)	Methods of Technological Change (Campus & Web-based)	Strong
ALEC 644 (o, e)	The Agricultural Advisor in Developing Nations (Web-based only)	Pina
ALEC 681 (o, e)	Seminar (topics change by semester; can be taken more than once)	Murphy
ALEC 689 (o)	Special Topics in Communications Theory (possibly changing)	??
ALEC 690 (o, e)	Theory of Agricultural Education Research (Basic Quant)	Briers
ALEC 691 (o, e)	Research for MS/PhD	
ALEC 692 (o, e)	Research for EdD	
ALEC 693 (o, e)	Professional Study for MAg	
ALEC 695 (o, e)	Frontiers in Research (Campus & Web-based)	Murphy

Spring Course and Title		Steward
ALEC 601 (o, e)	Advanced Methods in Agricultural Education	Harlin
ALEC 602 (o, e)	Advanced Instructional Design in Agricultural Science	??
ALEC 604 (o, e)	Writing for Professional Publication	Leggette
ALEC 605 (o, e)	Facilitating Complete Secondary Agricultural Science Programs	??
ALEC 606 (e) *	Foundations of Leadership Theory	Elbert
ALEC 607 (e) *	Youth Leadership Programs (Web-based)	Boyd
~~ALEC 608 (o, e)~~	~~Leadership of Volunteers~~ (moved to Fall)	
ALEC 609 (o, e) *	Learning Organizations	Moore
ALEC 610 (o, e) #	Principles of Adult Education (Campus)	Lindner
ALEC 612 (o, e) #	Advanced Instructional Design for Online Learning (Web-based)	Murphrey
ALEC 613 (o, e) #	Techniques in eLearning Development & Delivery (Web-based)	Strong
ALEC 620 (o, e)	Instrumentation and Survey Research Methods	Lindner
ALEC 622 (o, e)	Data Collection, Analysis and Interpretation	Briers
ALEC 625 (o, e) *	Program Evaluation & Org Accountability (Campus & Web-based)	Elbert
ALEC 630 (o, e)	Guidance and Counseling for Rural Youth	Harlin
ALEC 640 (o, e)	Methods of Technological Change (Campus & Web-based)	Strong
ALEC 645 (o, e)	Initiating, Managing & Monitoring Projects of International ADEV	Pina
ALEC 646 (o, e)	Institutions Serving Agriculture in Developing Nations	Pina
ALEC 652 (o)	Images of Agriculture: Visual Communication Research	Rutherford
ALEC 681 (o, e)	Seminar (topics change by semester; can be taken more than once)	
ALEC 691 (o, e)	Research for MS/PhD	
ALEC 692 (o, e)	Research for EdD	
ALEC 693 (o, e)	Professional Study for MAg	
ALEC 695 (o, e)	Frontiers in Research (Campus & Web-based)	Murphy
ALEC 696 (o, e)	Qualitative Research Methods (Campus & Web-based)	Dooley

Summer Course and Title (Proposed list)	Steward
ALEC 603 (o, e) Experiential Learning	Rayfield
ALEC 617 (o, e) * Leadership in Organizational Culture & Ethics (Web-based)	Williams
ALEC 625 (e) * Program Evaluation & Org Accountability (Web-based)	Elbert

This document is intended for planning purposes. Summer course offerings are proposed for approval in the spring semester. All course offerings are subject to change and it is recommended that students visit with their advisors and course instructors to determine exact offerings for specific semesters.

Last Updated, November 2015

Summer Course and Title (Proposed list)	Steward
ALEC 603 (o, e) Experiential Learning	Rayfield
ALEC 617 (o, e) * Leadership in Organizational Culture & Ethics (Web-based)	Williams
ALEC 625 (e) * Program Evaluation & Org Accountability (Web-based)	Elbert

GRE SCORES and PERCENTILE RANKS

PREV SCORE	NEW SCORE Q	QUANT %	NEW SCORE V	VERBAL %
800	166	93	170	99
790	164	89	170	99
780	163	87	170	99
770	161	81	170	99
760	160	78	170	99
750	159	75	169	99
740	158	72	169	99
730	157	69	168	98
720	156	65	168	98
710	155	61	167	97
700	155	61	166	96
690	154	57	165	95
680	153	53	165	95
670	152	49	164	93
660	152	49	164	93
650	151	45	163	91
640	151	45	162	89
630	150	41	162	89
620	149	37	161	87
610	149	37	160	84
600	148	33	160	84
590	148	33	159	81
580	147	29	158	78
570	147	29	158	78
560	146	25	157	73
550	146	25	156	70
540	145	22	156	70
530	145	22	155	66
520	144	18	154	62
510	144	18	154	62
500	144	18	153	58
490	143	15	152	53
480	143	15	152	53
470	142	13	151	49
460	142	13	151	49
450	141	11	150	44
440	141	11	149	40
430	141	11	149	40
420	140	8	148	36
410	140	8	147	32
400	140	8	146	28
390	139	6	146	28
380	139	6	145	24
370	138	5	144	21
360	138	5	143	18
350	138	5	143	18
340	137	3	142	15
330	137	3	141	12
320	136	2	140	10
310	136	2	139	7
300	136	2	138	6
290	135	2	137	5
280	135	2	135	2
270	134	1	134	2
260	134	1	133	1
250	133	1	132	1
240	133	1	131	1
230	132	1	130	0
220	132	0	130	0
210	131	0	130	0
200	131	0	130	0

SCORE	WRITING %
6.0	99
5.5	97
5.0	93
4.5	78
4.0	54
3.5	35
3.0	14
2.5	6
2.0	2
1.5	1
1.0	0
0.5	0
0.0	0

ALEC Criterion Score Calculation

(GRE-V %ile + GRE-Q %ile + GRE-W %ile) + (GPR x 100)

Master's Minimum to be considered: 350

Doctoral Minimum to be considered: 400

Old Test Minimums

Master's Applicants

GRE-Q	GRE-V	Writing	Last 60 hrs. GPR
500	410	4	3.1

Doctoral Applicants

GRE-Q	GRE-V	Writing	Graduate GPR
500	450	4	3.7

New Test - Highly Competitive Scores

Master's Applicants

GRE-Q	GRE-V	Writing	Last 60 hrs. GPR
26%	36%	41%	3.1
146	148	4	

Doctoral Applicants

GRE-Q	GRE-V	Writing	Graduate GPR
26%	48%	41%	3.7
146	151	4	

If your scores and GPA meet each category above for the degree of interest, your application will be considered highly competitive and you may be admitted without a faculty vote. However, you must still have a faculty member to agree to serve as your interim major advisor (IMA).

Agricultural Leadership, Education, & Communications Graduate Course Offering Schedule (Five Year)

	2015-16	2016-17	2017-18	2018-19	2019-20
FALL	ALEC 602 Adv Instructional Design in AGSC (Moore)	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC
	ALEC 605 Facilitating Comp Secondary AGSC Programs (Murphy)	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 605 Facilitating Comp Secondary AGSC Programs
	ALEC 606 Leadership Education Theory (Moore)	ALEC 606 Leadership Education Theory	ALEC 606 Leadership Education Theory	ALEC 606 Leadership Education Theory	ALEC 606 Leadership Education Theory
	ALEC 610 Principles of Adult Education (Wingenbach) [1]	ALEC 610 Principles of Adult Education [1]	ALEC 610 Principles of Adult Education [1]	ALEC 610 Principles of Adult Education [1]	ALEC 610 Principles of Adult Education [1]
	ALEC 611 Adv Methods in Distance Ed (Dooley) [1]	ALEC 611 Adv Methods in Distance Ed (Dooley) [1]	ALEC 611 Adv Methods in Distance Ed [1]	ALEC 611 Adv Methods in Distance Ed [1]	ALEC 611 Adv Methods in Distance Ed [1]
	ALEC 615 Philosophy of AGED (Rayfield)	ALEC 615 Philosophy of AGED	ALEC 615 Philosophy of AGED	ALEC 615 Philosophy of AGED	ALEC 615 Philosophy of AGED
	ALEC 616 Facilitation of Leadership Programs (Odom)	ALEC 616 Facilitation of Leadership Programs (Odom)	ALEC 616 Facilitation of Leadership Programs	ALEC 616 Facilitation of Leadership Programs	ALEC 616 Facilitation of Leadership Programs
	ALEC 623 Survey of Evaluation Strategies for Agriculture (Murphrey) [1]	ALEC 623 Survey of Evaluation Strategies for Agriculture (Murphrey) [1]	ALEC 623 Survey of Evaluation Strategies for Agriculture [1]	ALEC 623 Survey of Evaluation Strategies for Agriculture [1]	ALEC 623 Survey of Evaluation Strategies for Agriculture
	ALEC 624 Developing Funded Research Projects (Pina)	ALEC 624 Developing Funded Research Projects (Pina)	ALEC 624 Developing Funded Research Projects	ALEC 624 Developing Funded Research Projects	ALEC 624 Developing Funded Research Projects
	ALEC 630 Guidance & Counseling for Rural Youth (Harlin) [1]	ALEC 631 Development and Planning of Community Education Programs	ALEC 631 Development and Planning of Community Education Programs	ALEC 631 Development and Planning of Community Education Programs	ALEC 631 Development and Planning of Community Education Programs
	ALEC 631 Development and Planning of Community Education Programs (Shackelford)	ALEC 640 Methods of Technological Change (Murphrey) [1]	ALEC 640 Methods of Technological Change [1]	ALEC 640 Methods of Technological Change [1]	ALEC 640 Methods of Technological Change [1]
	ALEC 640 Methods of Technological Change (Murphrey) [1]	ALEC 644 The Agricultural Advisor in Developing Nations (Pina)	ALEC 644 The Agricultural Advisor in Developing Nations	ALEC 644 The Agricultural Advisor in Developing Nations	ALEC 644 The Agricultural Advisor in Developing Nations
	ALEC 640 Methods of Technological Change (Harlin)	ALEC 681 Seminar	ALEC 681 Seminar (Murphrey) [1]	ALEC 681 Seminar	ALEC 681 Seminar
	ALEC 644 The Agricultural Advisor in Developing Nations (Pina)	ALEC 681 Seminar (Murphrey) [1]	ALEC 690 Theory of AGED Research-Basic Quant	ALEC 690 Theory of AGED Research-Basic Quant	ALEC 690 Theory of AGED Research-Basic Quant
	ALEC 681 Seminar (Harlin)	ALEC 690 Theory of AGED Research-Basic Quant (Briers)	ALEC 695 Frontiers in Research	ALEC 695 Frontiers in Research	ALEC 695 Frontiers in Research
	ALEC 681 Seminar (Murphrey) [1]	ALEC 695 Frontiers in Research	ALEC 695 Frontiers in Research [3]	ALEC 695 Frontiers in Research [1]	ALEC 695 Frontiers in Research [3]
	ALEC 681 Seminar-Grant Workshop (Elliot) [1]	ALEC 695 Frontiers in Research (Strong) [1]			
	ALEC 690 Theory of AGED Research-Basic Quant – cancelled – Briers Development leave				
	ALEC 695 Frontiers of Research (Rayfield)				
	ALEC 695 Frontiers of Research (Strong) [1][3]				

SPRING REGULAR SEMESTER					
	ALEC 601 Adv Methods in AGED (Harlin) [1]	ALEC 601 Adv Methods in AGED	ALEC 601 Adv Methods in AGED	ALEC 601 Adv Methods in AGED	ALEC 601 Adv Methods in AGED
	ALEC 602 Adv Instructional Design in AGSC (Moore)	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC	ALEC 602 Adv Instructional Design in AGSC
	ALEC 604 Writing for Professional Publication (Archer) [1][3]	ALEC 604 Writing for Professional Publication	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 605 Facilitating Comp Secondary AGSC Programs
	ALEC 605 Facilitating Comp Secondary AGSC Programs (Murphy)	ALEC 605 Facilitating Comp Secondary AGSC Programs	ALEC 604 Writing for Professional Publication	ALEC 604 Writing for Professional Publication	ALEC 604 Writing for Professional Publication
	ALEC 606 Leadership Education Theory (Moore) [3]	ALEC 606 Leadership Education Theory	ALEC 607 Youth Leadership Programs [1]	ALEC 608 Leadership of Volunteers	ALEC 607 Youth Leadership Programs [1]
	ALEC 607 Youth Leadership Programs (Rayfield) [1]	ALEC 610 Principles of Adult Education	ALEC 608 Leadership of Volunteers	ALEC 609 Learning Organizations	ALEC 608 Leadership of Volunteers
	ALEC 608 Leadership of Volunteers (Dodd)	ALEC 612 Adv Instructional Design for Online Learning	ALEC 609 Learning Organizations	ALEC 610 Principles of Adult Education	ALEC 610 Principles of Adult Education
	ALEC 609 Learning Organizations - cancelled	ALEC 613 Techniques in eLearning Dev & Delivery [1]	ALEC 610 Principles of Adult Education	ALEC 612 Adv Instructional Design for Online Learning [1]	ALEC 612 Adv Instructional Design for Online Learning [1]
	ALEC 610 Principles of Adult Education (Redwine)	ALEC 620 Instrumentation & Survey Research Methods	ALEC 612 Adv Instructional Design for Online Learning [1]	ALEC 613 Techniques in eLearning Dev & Delivery [1]	ALEC 613 Techniques in eLearning Dev & Delivery [1]
	ALEC 612 Adv Instructional Design for Online Learning (Murphrey) [1]	ALEC 622 Data Collection, Analysis, & Interpretation	ALEC 613 Techniques in eLearning Dev & Delivery [1]	ALEC 620 Instrumentation & Survey Research Methods	ALEC 622 Data Collection, Analysis, & Interpretation
	ALEC 613 Techniques in eLearning Dev & Delivery (Strong) [1]	ALEC 625 Program Evaluation & Organizational Accountability	ALEC 622 Data Collection, Analysis, & Interpretation	ALEC 622 Data Collection, Analysis, & Interpretation	ALEC 624 Developing Funded Research Projects
	ALEC 620 Instrumentation & Survey Research Methods (Rayfield)	ALEC 630 Guidance & Counseling for Rural Youth	ALEC 624 Developing Funded Research Projects	ALEC 625 Program Evaluation & Organizational Accountability [1]	ALEC 625 Program Evaluation & Organizational Accountability [1]
	ALEC 622 Data Collection, Analysis, & Interpretation (Briers)	ALEC 640 Methods of Technological Change [1]	ALEC 625 Program Evaluation & Organizational Accountability [1]	ALEC 625 Program Evaluation & Organizational Accountability	ALEC 625 Program Evaluation & Organizational Accountability
	ALEC 625 Program Evaluation & Organizational Accountability (Cummings)	ALEC 645 Initiating, Managing & Monitoring Projects of International ADEV	ALEC 625 Program Evaluation & Organizational Accountability	ALEC 630 Guidance & Counseling for Rural Youth	ALEC 630 Guidance & Counseling for Rural Youth
	ALEC 625 Program Evaluation & Organizational Accountability (TBA) [1]	ALEC 646 Institutions Serving AG in Developing Nations	ALEC 630 Guidance & Counseling for Rural Youth	ALEC 640 Methods of Technological Change [1]	ALEC 645 Initiating, Managing & Monitoring Projects of International ADEV
	ALEC 630 Guidance & Counseling for Rural Youth (Harlin)	ALEC 681 Seminar	ALEC 645 Initiating, Managing & Monitoring Projects of International ADEV	ALEC 645 Initiating, Managing & Monitoring Projects of International ADEV	ALEC 646 Institutions Serving AG in Developing Nations
	ALEC 640 Methods of Technological Change (Murphrey) [1]	ALEC 681 Seminar [1]	ALEC 646 Institutions Serving AG in Developing Nations	ALEC 681 Seminar	ALEC 652 Images of Agriculture: Visual Communication Research
	ALEC 645 Initiating, Managing & Monitoring Projects of Intrnl ADEV (Pina)	ALEC 695 Frontiers of Research	ALEC 652 Images of Agriculture: Visual Communication Research	ALEC 695 Frontiers of Research	ALEC 681 Seminar
	ALEC 646 Institutions Serving AG in Developing Nations (Pina)	ALEC 696 Qualitative Research Methods [1]	ALEC 681 Seminar	ALEC 696 Qualitative Research Methods [1]	ALEC 681 Seminar [3]
	ALEC 681 Seminar (TBA)	ALEC 696 Qualitative Research Methods	ALEC 681 Seminar [3]		ALEC 695 Frontiers of Research
	ALEC 681 Seminar (Murphrey) [1]		ALEC 695 Frontiers of Research		ALEC 696 Qualitative Research Methods [1]
	ALEC 695 Frontiers of Research (Strong)		ALEC 696 Qualitative Research Methods [1]		
	ALEC 695 Frontiers of Research (Wingenbach) [1]				
	ALEC 696 Qualitative Research Methods (Dooley)				

	2015-16	2016-17	2017-18	2018-19	2019-20
Spring Winter Mini-mester	ALEC 640 Methods of Technological Change [5] – Costa Rica (Moore)	ALEC 640 Methods of Technological Change [5] – Costa Rica			
SS I / Summer Mini-mester	**Proposed** ALEC 603 Experiential Learning (Rayfield) [4] ALEC 617 Leadership in Organizational Culture & Ethics [1] ALEC 625 Program Evaluation & Organizational Accountability ALEC 681 Seminar (Murphrey) [1]	**Proposed** ALEC 603 Experiential Learning [4] ALEC 617 Leadership in Organizational Culture & Ethics [1] ALEC 681 Seminar (Murphrey) [1]	**Proposed** ALEC 603 Experiential Learning ALEC 617 Leadership in Organizational Culture & Ethics ALEC 625 Program Evaluation & Organizational Accountability [1] ALEC 681 Seminar (Murphrey) [1]	**Proposed** ALEC 603 Experiential Learning ALEC 617 Leadership in Organizational Culture & Ethics ALEC 681 Seminar (Murphrey) [1]	**Proposed** ALEC 603 Experiential Learning ALEC 617 Leadership in Organizational Culture & Ethics ALEC 625 Program Evaluation & Organizational Accountability [1] ALEC 681 Seminar (Murphrey) [1]
SS II	ALEC 604 Writing for Prof. Publication [5] – Namibia				

1   Distance delivery as web-based
2   Delivery is web enhanced
3   Joint Ed.D. program
4   Summer Mini-mester
5   Study Abroad

Updated November 2015

Agricultural Leadership, Education, and Communications (ALEC)
Graduate Degree Plan Required Research Sequence

The graduate faculty in ALEC wants to provide you the knowledge and skills to be a consumer and initiator of research. Graduate degrees assume a theoretical perspective, and the ability to conduct research-based inquiry. Degrees requiring original research require more advanced research tools and a knowledge of statistics. If you have previously taken some research coursework, you may proceed through the research sequence taking more advanced courses. If you have no research-related preparation, you may need leveling coursework. Provided below are the minimum requirements for Research Tools courses in the degree programs offered by the department. In addition to the required Research Tools courses, students in each graduate program ordinarily include the ALEC Graduate Seminar, and an appropriate amount of Research, Professional Study, or Internship credit on their Degree Plans. These requirements are summarized in the Table below.

M. Ed. or M. Ag.	M. S.	Ed. D.	Ph. D.
(3 Hours of Tools)	(6 Hours of Tools)	(12 Hours of Tools)	(18 Hours of Tools)
ALEC 695	Basic Quant **OR** Basic Qual	Basic Quant	Basic Quant
	STAT I	Basic Qual.	Basic Qual.
		STAT I OR STAT II	STAT I
ALEC 684 OR ALEC 693	ALEC 681 (1 hr.)	Advanced Quant.	STAT II
	ALEC 691 (4 hrs.)	ALEC 681 (3 hr.)	Measurement/Instrumentation
			STAT III
		ALEC 684 (6 hrs.)	Interpretation/Analysis
			Writing/Reporting Results
		ALEC 692 (12 hrs.)	ALEC 681 (3 hr.)
			ALEC 691 (12 hrs.)

Notes:
- ALEC 681 (graduate seminar) is a part of our departmental research culture. *All graduate students are encouraged to attend even when not enrolled.*
- A Master of Science student is limited to one 690 course. The STAT series in EDAD or EHRD are 690 courses, so plan accordingly. In addition, there is a limitation to the number of variable course credit (refer to catalog).
- Doctoral students ordinarily include a basic quantitative and qualitative course, two graduate statistics courses, and one or more advanced methods courses matching the methods chosen for their study (quant/qual) in the following areas 1) measurement/instrumentation, 2) interpretation/analysis, and 3) writing/reporting results.

Variable Credit Courses in ALEC

ALEC 681	Seminar
ALEC 684	Professional Internship (M.Ed., M.Ag., EdD)
ALEC 685	Direct Studies
ALEC 691	Research (PhD dissertation and MS thesis)
ALEC 692	Professional Study (EdD Record of Study)
ALEC 693	Professional Study (MEd, M.Ag., Professional Paper)

Approved Statistics Courses

STAT 651 (STAT I)	Statistics in Research I
EDAD/EHRD 690 (STAT I)	Theory of EDAD/EHRD Research-STAT I
EPSY 640 (STAT I)	Experimental Design in Education I
STAT 652 (STAT II)	Statistics in Research II
EDAD/EHRD 690 (STAT II)	Theory of EDAD/EHRD Research-STAT II
EPSY 641 (STAT II)	Experimental Design in Education II

Approved Research Tools Courses in ALEC

ALEC 604	Writing for Professional Publication
ALEC 620	Instrumentation and Survey Research Methods in Ag Ed
ALEC 622	Data Analysis and Interpretation
ALEC 690	Basic Quantitative Research Methods
ALEC 695	Frontiers in ALEC Research-Required for Masters programs
ALEC 696	Qualitative Research Methods

Approved Research Tools Courses by Department

STAT 606	Design of Experiments
STAT 607	Sampling
STAT 609	Order Statistics and Non-Parametric Methods
STAT 636	Methods in Multivariate Analysis
STAT 641	The Methods of Statistics I
STAT 642	The Methods of Statistics II
STAT 653	Statistics in Research III
STAT 659	Applied Categorical Data Analysis
EDAD 623	Advanced Fieldwork Methods (Advanced Qual)
EDAD 690	Theory of EDAD Research—Field Methods (Intro Qual)
EDAD 690	Theory of EDAD Research—Proposal Preparation
EDAD/EHRD 690	Theory of EDAD/EHRD Research—Research Design (STAT III)
EDAD 690	Theory of EDAD Research—Survey Data Analysis
EDCI 636	Educator as Researcher
EDCI 673	Analysis of Teaching Behavior
EHRD 627	Research and Development in EHRD
EHRD 651	Models of Epistemology and Inquiry in EHRD
EHRD 655	Qualitative Research Methods
EHRD 656	Narrative Analysis (Advanced Qual)
EHRD 657	Life History Research (Advanced Qual)
EHRD 690	Theory of EHRD Research—Adult Ed Research Design (Qual)
EHRD 690	Theory of EHRD Research-Literature Review
EPSY 435	Educational Statistics
EPSY 622	Measurement and Evaluation in Research
EPSY 625	Advanced Behavioral Measurement
EPSY 636	Techniques of Research
EPSY 640	Experimental Design in Education I
EPSY 641	Experimental Design in Education II
EPSY 642	Meta-Analysis of Behavioral Research
EPSY 643	Applied Multivariate Methods
COMM 610	Social Science Methods in Communication Research (Quan)
COMM 615	Interpretive Research in Communication (Qual)
KINE 601	Reading Research Publications in Kinesiology
PSYC 623	Standardized Tests and Measurements
PSYC 624	Individual Testing
PSYC 627	Individual Testing of Children and Adolescents
PSYC 671	Experimental Design for Behavioral Scientists
PSYC 672	Factor Analysis for Behavioral Scientists
PSYC 673	Psychometric Theory and Methods
PSYC 674	Covariance Structure Models and Causal Analysis
PSYC 676	Web-Based Data Collection
RPTS 615	Analytic Techniques in RPTS
SOCI 623	Measurement of Sociological Parameters
SOCI 624	Qualitative Methodology (Intro Qual)
SOCI 631	Seminar in Sociological Research
URSC 641	Analytics Methods in Landscape and Urban Research I

Revised March 2015