GEORGE MASON UNIVERSITY COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT GRADUATE SCHOOL OF EDUCATION

Course

ELED 559: *Research and Assessment in Elementary Education* Section 7- Independent Study, 3 credits Spring 2020 Instructor Mandy Bean Office Hours: By appointment Thompson 1803 (704) 302-6702 <u>abean5@gmu.edu</u>

Prerequisites

Admission into elementary education graduate program; capstone course for degree must be taken last in programmatic sequence.

University Catalog Course Description

Provides teacher candidates an understanding of research paradigms utilizing systematic evidence to improve practice and further skills in assessment of learning outcomes. Emphasizes linking research and practice, making instructional decisions based on systematically collected data.

Course Overview

This course is designed to help teacher candidates understand various research paradigms utilizing research literature and systematic evidence to improve teacher practice, and to further their skills at assessment of learning outcomes. Course emphasizes linking research and practice and making instructional decisions based on systematically collected data.

Nature of Course Delivery

This course is delivered using multiple instructional strategies and formats including face-to-face, synchronous online meetings, and asynchronous online meetings. Individual session formats vary and may include lecture, small group/large group discussion, hands-on, interactive work, student presentations, and cooperative learning. Practical applications of theory are explored in group activities.

Under no circumstances, may candidates/students participate in online class sessions (either by phone or Internet) while operating motor vehicles. Further, as expected in a face-to-face class meeting, such online participation requires undivided attention to course content and communication.

Technical Requirements

To participate in this course, students will need to satisfy the following technical requirements:

- High-speed Internet access with a standard up-to-date browser, either Internet Explorer or Mozilla Firefox is required (note: Opera and Safari are not compatible with Blackboard).
- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- Students may be asked to create logins and passwords on supplemental websites and/or to download trial software to their computer or tablet as part of course requirements.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
 - Adobe Acrobat Reader: <u>https://get.adobe.com/reader/</u>
 - Windows Media Player:

https://windows.microsoft.com/en-us/windows/downloads/windows-media-player/

• Apple Quick Time Player: <u>www.apple.com/quicktime/download/</u>

COURSE EXPECTATIONS

COURSE WEEK: Our class will meet independently with some online course meetings.

LOG IN FREQUENCY: Students must actively check the course Blackboard site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least *twice* a week.

PARTICIPATION: Please see Item #1 under course assignments. Students are expected to actively engage in all course activities throughout the semester, which includes viewing all course materials, completing course activities and assignments, and participating in course discussions and group interactions.

TECHNICAL COMPETENCE: Students are expected to demonstrate competence in the use of all course technology. Students who are struggling with technical components of the course are expected to seek assistance from the instructor and/or College or University technical services.

TECHNICAL ISSUES: Students should anticipate some technical difficulties during the semester and should, therefore, budget their time accordingly. Late work will not be accepted based on individual technical issues.

WORKLOAD: Please be aware that this course is **not** self-paced. <u>Students are expected to meet specific</u> <u>deadlines and due dates listed in the Class Schedule section of this syllabus</u>. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.

INSTRUCTOR SUPPORT: Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Those unable to come to a Mason campus can meet with the instructor via telephone or web conference. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.

NETIQUETTE: The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students must always re-read their responses carefully before posting them, so as others do not consider them as personal offenses. *Be positive in your approach with others and diplomatic in selecting your words*. Remember that you are not competing with classmates, but sharing information and learning from others. All faculty are similarly expected to be respectful in all communications.

ACCOMMODATIONS: Learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

WRITTEN WORK: <u>All assignments must be written in Times New Roman, 12 point font, double-spaced,</u> <u>and follow APA (6th edition) formatting guidelines</u> (see <u>http://owl.english.purdue.edu/owl/resource/560/01/</u> for more information). Assignments should be submitted electronically via email and are due by class time on the date indicated in an appropriate format (i.e., Word document). *Assignments turned in late or in an inappropriate format will have a deduction of points. If there is an emergency, contact Dr. Bean as soon as possible.* All assignments should be submitted with the following naming convention: student's last name and the title of the assignment. For example: Bean_LitReview

IN CLASS TECHNOLOGY POLICY: When you are using laptops or other electronic devices, *please be respectful of your peers and your instructor and do not engage in activities that are unrelated to class. Such disruptions show a lack of professionalism and <u>will impact your participation grade</u>.*

LEARNING OUTCOMES

- A. Students will be able to:
 - 1. Articulate the role of systematic evidence in the improvement of teaching and learning.
 - 2. Use educational research literature as a basis for reflecting on and improving their teaching practice.
 - 3. Make explicit linkages between research and assessment practice.
 - 4. Distinguish between the purposes and methods of theoretical, applied, and action research as well as quantitative and qualitative research.
 - 5. Explain the fundamentals of validity and reliability, and articulate the potential threats to validity within various research paradigms.
 - 6. Critique the quality of research studies within various paradigms.
 - 7. Describe the purpose and cycle of action research, specifically in relationship to assessment of their learners.
 - 8. Design appropriate and authentic assessments and analyze student data.
 - 9. Design an action research study based on research and student assessments.
 - 10. Use technology to assist in locating, using, conducting research, and analyzing data.

Learning	NBPTS	NETS Standards	InTASC Standards	ACEI Standards
Outcomes	Propositions			
1	1, 3	V	2, 3, 4, 5, 6, 9, 10	3.1, 3.2, 3.3, 3.4, 4.0, 5.1
2	1, 3, 4	IV & V	9, 10	5.1
3	1, 3, 4	IV & V	6, 9	4.0, 5.1
4	4	V	6,	4.0
5	4	V	6	4.0
6	4	V	6, 9, 10	4.0, 5.1
7	1, 3, 4	IV & V	6, 7, 9	3.1, 4.0, 5.1
8	1, 3	IV & V	6	4.0
9	4	IV & V	6, 7, 9	3.1, 4.0, 5.1
10	4	V	4	2.1, 2.6

B. Outcomes and Standards (see below)

PROFESSIONAL STANDARDS

Upon completion of this course, students will have met the following professional standards:

✤ INTASC

Standard #2: Learning Differences. The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

Standard #3: Learning Environments. The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self motivation.

Standard #4: Content Knowledge. The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.

Standard #5: Application of Content. The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.

Standard #6: Assessment. The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making.

Standard #7: Planning for Instruction. The teacher plans instruction that supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.

Standard #8: **Instructional Strategies**. The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.

Standard #9: Professional Learning and Ethical Practice. The teacher engages in ongoing professional learning and uses evidence to continually evaluate his/her practice, particularly the effects of his/her choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.

Standard #10: Leadership and Collaboration. The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

National Board for Professional Teaching Standards

Proposition 1: Teachers are committed to students and learningProposition 3: Teachers are responsible for managing and monitoring student learningProposition 4: Teachers think systematically about their practice and learn from their experience.

National Technology Standards

Standard IV: Teachers apply technology to facilitate a variety of effective assessment and evaluation strategies.

Standard V: Teachers use technology to enhance their productivity and professional practice.

* The Virginia State Technology Standards for Instructional Personnel

- 1. Instructional personnel shall be able to demonstrate effective use of a computer system and utilize computer software.
- 2. Instructional personnel shall be able to apply knowledge of terms associated with educational computing and technology.
- 3. Instructional personnel shall be able to apply computer productivity tools for professional use
- 4. Instructional personnel shall be able to use electronic technologies to access and exchange information.

REQUIRED TEXT

Mills, G. E. (2017). Action research: A guide for the teacher researcher (6th ed.). Boston, MA: Pearson.

COURSE PERFORMANCE EVALUATIONS:

Students are expected to submit all assignments on time in the manner outlined by the instructor.

TK20 Performance-Based Assessment Submission Requirement

Every student registered for any Elementary Education course <u>with a required performance-based</u> <u>assessment</u> is required to submit these assessments, Final Action Research Report, to TK20 through Blackboard (regardless of whether the student is taking the course as an elective, a onetime course or as part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in Tk20 through Blackboard. Failure to submit the assessment to TK20 (through Blackboard) will result in the course instructor reporting the course grade as Incomplete (IN). Unless the IN grade is changed upon completion of the required Tk20 submission, the IN will convert to an F nine weeks into the following semester.

ASSIGNMENTS

Assignment 1. Component Drafts: [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]		
b.	Part Two A: Annotated Bibliography 1	(70 total)
с.	Part Two B: Annotated Bibliography 2	
d.	Part Three: Context and Instructional Change	
e.	Part Four: Data Collection and Student Assessment	
f.	Part Five: Data Analysis	
g.	Part Six: Findings	
2. Final Action Research Report (PBA) [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]		
Total		100

It is expected that you attend all meetings/classes (both in person and online) outlined within the syllabus. Absence from class to observe a religious holiday, to serve jury duty, or to participate in required military service, and medical emergencies are exceptions to the above policy. If you anticipate being absent for any of these reasons, please make arrangements at least 48 hours in advance. In addition, you are expected to be on time to class each week unless advance notice has been provided to the instructor.

You are expected to be prepared for each class, which means having completed all assigned readings and tasks for that class.

All written papers are expected to be double-spaced, with 1" margins, and in 12-point font of Times New Roman. APA format is expected. If you do not have a 6th Edition APA manual, the OWL at Purdue is an excellent resource. <u>http://owl.english.purdue.edu/owl/resource/560/01/</u>

Please Note: The GMU Writing Center offers online support via email. They will provide feedback on your writing within one hour. Graduate and professional writing can be difficult; I encourage you to take advantage of this service. <u>http://writingcenter.gmu.edu/?page_id=177</u>

It is expected that all class assignments will be submitted on time to the correct location; therefore, **late assignments will not receive full credit**. <u>Assignments turned in late will have 1</u> <u>point deducted for each day it is late; this policy will be strictly followed</u>. All assignments must be submitted on the due date stated within the syllabus and should be submitted in the format outlined below.

Note: I reserve the right to add, alter, or omit any assignment as necessary during the course of the semester. You will always receive advanced notice of any modifications.

1. Component Drafts (10 each: 7 total for 70 points)

These sections will be submitted throughout the semester for formative feedback. These drafts <u>MUST</u> be submitted by their syllabus due dates. They are worth 10 points each. **All are due on Sundays by 11:59pm.**

Part One: Rationale and Research Question(s)
Part Two A: Annotated Bibliography #1
Part Two B: Annotated Bibliography #2
Part Three: Context and Instructional Change
Describe your school, community, classroom and student population; and
Describe the instructional change
Part Four: Data Collection and Student Assessments
Describe how you collected data to answer your research question(s). This includes
formative and summative assessments designed to gather that data.
<u>Part Five:</u> Data Analysis
Describe how you analyzed your data
Part Six: Findings
Describe your findings

2. Action Research FINAL Report (30 points)

This is the major assignment for this class and is the Performance Based Assessment (PBA) for the course. The final written report will include the sections above and a final implications section for a total of seven sections.

Points will also be earned for quality of writing and use of APA style in FINAL REPORT. See attached rubric.

- <u>Part One</u>: Rationale and Research Question(s)
- Part Two: Annotated Bibliography
- <u>Part Three:</u> Context and Instructional Change
- Part Four: Data Collection and Student Assessments
- Part Five: Data Analysis
- Part Six: Findings
- Part Seven: Implications

Final Report must be submitted by May 3rd by 11:59pm

Grading Scale

94-100 = A 90-93 = A- 88-89 = B+ 80-87 = B 70-79 = C Below 70 = F					

PROFESSIONAL DISPOSITIONS

Students are expected to exhibit professional behaviors and dispositions at all times: <u>https://cehd.gmu.edu/students/polices-procedures/</u>. (See also Elementary Education Program Handbook).

COURSE SCHEDULE

Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

Date	Readings	Topics and Activities	Assignment Due
Week of	Mills Ch 1:	Watch online video (posted on Bb on 1/20 by 7pm)	
1/20	Understanding	- Syllabus	
	Action Research	- Intro: Rationale and Research Question	
Week of	Mills Ch 3:	Review Context and Change overview powerpoint	Bring your idea(s) for
1/27	Deciding on an	(posted on Bb on 1/27 by 7pm)	your area of focus to
	area of focus		online meeting with Dr.
		Topic: "Area of focus"	Bean
		- Schedule a mandatory 15 min. online	
		meeting with Dr. Bean between 1/27-	Feb 2: Part 1: Rationale
		1/31; bring idea for rationale and	and Research Question(s)
		research question	
Week of	Mills Ch. 4:	Watch online video and/or powerpoint (posted on	Feb 9: Part 2A:
2/3	Review of	Bb on 2/3 by 7pm)	Annotated Bibliography:
	Related	- Reviewing the Literature	Find 5 research articles
	Literature	- Find peer reviewed articles	related to your topic
Week of		Find peer reviewed articles	Feb 16: Part 2B:
2/10			Annotated Bibliography:
			5 MORE research articles
			related

Week of	Mills Ch 5: Data	Feb 23: Part 3: Context	
2/17	Collection	Bb on 2/17 by 7pm)	and Change
	techniques	- Qualitative Data Collection and Analysis	
		 Quantitative Data Collection and Analysis 	
Week of	Mills Ch 6: Data	Watch online video and/or powerpoint (posted on	March 1: Part 4: Data
2/24	Collection	Bb on 2/24 by 7pm)	Collection
	considerations	 Ensuring Trustworthiness 	
		 Validity, Reliability, Generalizability 	
		 Evaluating the Quality of Action Research 	
Week of		No Class – IT, data collection*	During IT period:
3/2			Schedule one mandatory
Week of		No Class – IT, data collection*	meeting with Dr. Bean to
3/9			discuss progress (from
Week of		No Class – IT, data collection*	<mark>3/2-4/3)</mark>
3/16			_
Week of		No Class – IT, data collection*	
3/23			
Week of		No Class – IT, data collection*	
3/30			
Week of	Mills Ch. 7 Data	Review Analyzing Data overview powerpoint	April 12: Part 5: Data
4/6	analysis and interpretation	(posted on Bb on 4/6 by 7pm)	Analysis
		Topic: Analyzing Data	
		- Schedule a mandatory 15-30 min. online	
		meeting with Dr. Bean between 4/6-4/9;	
		bring all data collected	
Week of	Mills Ch. 9	Review Writing Up Action Research overview	April 19: Part 6: Findings
4/13	Writing Up	powerpoint (posted on Bb on 4/13 by 7pm)	
	Action Research	 Work on data analysis 	
		 Preparing for the final research report 	
			May 3: FINAL Paper
			(includes Implications
			section)

CORE VALUES COMMITMENT

Core Values Commitment The College of Education & Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles. http://cehd.gmu.edu/values/



GMU POLICIES AND CAMPUS RESOURCES FOR STUDENTS

POLICIES

Students must adhere to the guidelines of the Mason Honor Code (see <u>http://oai.gmu.edu/the-mason-honor-code/</u>).

Students must follow the university policy for Responsible Use of Computing (see <u>http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/</u>).

Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students **solely** through their Mason email account.

Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see <u>http://ods.gmu.edu/</u>).

Students must follow the university policy stating that all sound emitting devices shall be silenced during class unless otherwise authorized by the instructor.

CAMPUS RESOURCES

Support for submission of assignments to Tk20 should be directed to <u>tk20help@gmu.edu</u> or <u>https://cehd.gmu.edu/aero/tk20</u>. Questions or concerns regarding use of Blackboard should be directed to <u>http://coursessupport.gmu.edu/</u>.

The Writing Center provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing (see http://writingcenter.gmu.edu/).

The Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance (see <u>http://caps.gmu.edu/</u>).

The Student Support & Advocacy Center staff helps students develop and maintain healthy lifestyles through confidential one-on-one support as well as through interactive programs and resources. Some of the topics

they address are healthy relationships, stress management, nutrition, sexual assault, drug and alcohol use, and sexual health (see <u>http://ssac.gmu.edu/</u>). Students in need of these services may contact the office by phone at 703-993-3686. Concerned students, faculty and staff may also make a referral to express concern for the safety or well-being of a Mason student or the community by going to <u>http://ssac.gmu.edu/make-a-referral/</u>.

Notice of mandatory reporting of sexual assault, interpersonal violence, and stalking:

As a faculty member, I am designated as a "Responsible Employee," and must report all disclosures of sexual assault, interpersonal violence, and stalking to Mason's Title IX Coordinator per University Policy 1202. If you wish to speak with someone confidentially, please contact one of Mason's confidential resources, such as Student Support and Advocacy Center (SSAC) at 703-380-1434 or Counseling and Psychological Services (CAPS) at 703-993-2380. You may also seek assistance from Mason's Title IX Coordinator by calling 703-993-8730, or emailing <u>titleix@gmu.edu</u>.

For information on student support resources on campus, see <u>https://ctfe.gmu.edu/teaching/student-</u> <u>support-resources-on-campus</u>

For additional information on the College of Education and Human Development, Graduate School of Education, please visit our website [See <u>http://gse.gmu.edu/</u>].

EMERGENCY PROCEDURES

You are encouraged to sign up for emergency alerts by visiting the website https://alert.gmu.edu. There are emergency posters in each classroom explaining what to do in the event of crises. Further information about emergency procedures exists on http://gmu.edu/service/cert

Final Paper: Action Research Rubric					
Levels/Criteria	3	2	1		
Introduction:	The problem is described in	The problem is adequately	The problem is not		
Describes the	details. The description fully	described. The description	adequately described. It does		
problem. Clear	leads the reader to the	partially leads the reader to	not lead the reader to the		
research	research question. The	the research question. The	research question. The		
question stated.	research question is clear. It	research question is vague. It	research question is unclear.		
Significance of	is measureable. The	is measureable. The	It is not measureable. The		
problem is	significance of the problem is	significance of the problem is	significance of the problem is		
addressed.	addressed fully. It is clear	adequately addressed, but it	unfocused and rambles. It is		
InTASC 9	why this is an important	is not clear as to why this is	not clear why this is an		
ACEI 5.1	problem to study.	important.	important topic to study.		
Annotated	At least nine to ten research	Five to eight research studies	Less than five research		
Bibliography:	studies are used to support	are used. At least one of	studies are used. The articles		
Research studies	the literature review. These	them is from a respectable	are not from respectable		
are used.	are from respectable	journal. The studies are	journals. The studies are not		
Studies relate to	journals. The studies are	somewhat appropriate for	appropriate for the topic or		
the research	appropriate for the topic and	the topic and research	research question.		
question.	research questions.	question. Bibliography			
InTASC 9	Bibliography is in APA style	follows APA style with no			
ACEI 5.1	with no errors.	more than two errors.			
Context and	The setting is fully described.	The setting is adequately	Setting is not included or		
Intervention	It includes, size of school,	described. Most information	inadequately described. It is		
Provided:	location, grade level, subject	is included, but not all.	not clear where the research		
Setting	taught, etc. All pertinent	The population is adequately	will be conducted.		
Described.	information is included.	described. Most information	Population is not included or		
Population	The population is fully	is included, but not all.	inadequately described. It is		
identified.	described. It includes number	Intervention is adequately	not clear who will be		
Intervention.	of students, gender and	described, but either the	participating in the research		
InTASC 9	ethnic breakdown, grade	description of the	study.		
ACEI 5.1	levels, academic abilities, etc.	intervention or the	There is no intervention or		
	Information relevant to the	implementation is confusing.	implementation explained or		
	research is included.		the intervention does not align with the research		
	Intervention is fully described. It is clear what the		question.		
	intervention is and how it will		question.		
	be implemented.				
	Intervention is realistic.				
Research Design:	The methodology chosen	Two of the three stated	None or one of the criteria is		
Design of study	(quantitative, qualitative,	criteria are adequate.	adequate. The research is not		
matches goals.	mixed methods) is	Formative and summative	ethical.		
Formative and	appropriate for the research	assessments are included in	Either formative or		
Summative	question. There is adequate	the design. Copies are not	summative assessments are		
Assessments	time allowed for data	included and they are not	included, but not both.		
included.	collection. The treatment is	well described.	Copies are not included and		
Data sources	reasonable and ethical.	Most, but not all, of the data	they are not well described.		
appropriate.	There is a mixture of	sources are appropriate.	The majority of the data		
InTASC 9	formative and summative	· · · ·	sources are not appropriate		
ACEI 5.1	assessments included in the				

Final Paper: Action Research Rubric

Analysis of Data: Appropriate analysis for data	design. They are well- described or a copy is included. All data sources are appropriate for the research question. The information collected will help answer the question. The entire analysis of the data is appropriate. The information gathered addresses the research	The majority of the analysis is appropriate. However, it is not clear how other parts were analyzed.	for the research question. Data collected is not ethical. The analysis is inappropriate or not well-defined.
InTASC 9 ACEI 5.1 Findings and Implications: Findings are presented clearly. Implications from data proposed. Connects back to the findings. InTASC 9	question. Findings are presented in a clear format. Key findings are thoroughly discussed. Implications from the data are well-developed and fully discussed. The implications are connected back to the results of the data analysis.	Findings are presented in an appropriate format, although they could be clearer. Key findings are discussed in general terms. Implications from the data are adequately discussed. It is clear the student is able to interpret the findings. However, the implications are not tied back to the results.	Findings are not presented in a clear format or are absent. Key findings are not adequately discussed. Implications from the data are inadequately discussed. It is not clear the student is able to interpret the findings. The implications are not tied back to the results.
ACEI 5.1 Overall Style: Clear, concise writing. Grammar and punctuation. Multiple levels of headings used to organize ideas. InTASC 9 ACEI 5.1	The writing is very clear and concise. The reader can understand what the problem is and how the research will address it. There are no grammar and punctuation errors. There is evidence of multiple levels of headings. These are used appropriately in all instances.	The majority of the writing is clear and concise. There are one to three grammar and punctuation errors. There is evidence of multiple levels of headings. These are used appropriately in the majority of instances.	The majority of the reading is vague and unclear. The reader has difficulty seeing the connections between the various sections. There are four or more grammar and punctuation errors. There is no evidence of multiple levels of headings or these are used inappropriately in the majority of instances.