



I.7 A student's access to a computer is at least 18 hours/semester/subject

I. School Year/Semester	Summer, 2020
II. University	Vision: Mission Goal Core Values Institutional Outcomes: A. A Professional who is morally upright, socially responsible and globally employable B. A Leader and Innovator who inspires others and is committed to social transformation and national development C. An Environmental Advocate committed to research, extension and production initiatives
III. College/Campus	College of Education – Main Campus
IV. Program/Degree	Master of Arts in Educational Management, Master of Arts in Guidance and Counseling , Master of Arts in English
V. Program Outcomes	The graduates have the ability to: A. develop advanced knowledge and skills in a specialized, interdisciplinary, or multidisciplinary field of study for professional practice; B. engage in self-directed research; C. promote lifelong learning with a highly substantial degree of independence that involves individual work or teams of interdisciplinary or multidisciplinary experts in the field; D. apply these skills in research, professional, or creative work E. support local, regional, and national development plans along educational, environmental, and socio-economic programs. F. demonstrate environmental concern through integration of environmental education across courses and environmental advocacy programs.
VI. Course Code/Title	I – Introduced P – Practiced D – Demonstrated FC 401/ Statistics with Computer Application

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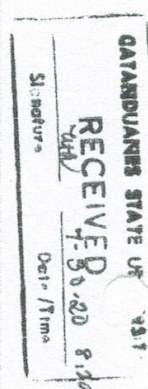
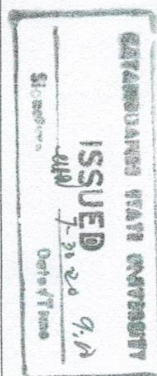
Rev. 0

Effective: June 1, 2015



Republic of the Philippines
CATANDUANES STATE UNIVERSITY
 Virac, Catanduanes

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OUTCOMES-BASED EDUCATION (OBE) COURSE SYLLABUS IN
FC401 – STATISTICS WITH COMPUTER APPLICATIONS
 Date revised/enhanced: June 11, 2020



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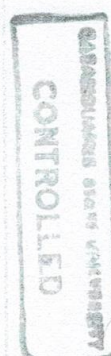
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VII. Course Description	This course introduces the very nature of statistics as a science and how it is used/ applied in research. It includes descriptive and inferential statistics with emphasis on hypothesis testing. Use of computer application software is to be given emphasis.							
VIII. Course Credit	3 units							
IX. Prerequisite	None							
X. Contact Hours	5 contact hours per week; 4 hours for the last meeting (54 hours a semester)							
XI. Course Outcomes	At the end of the course, the students shall be able to:							
	COs	Description	A	B	C	D	E	F
	1	Demonstrate knowledge and skills in data gathering and processing.	✓		✓	✓		
	2	Exhibit mastery of basic concepts and procedures of statistics by illustrating examples that apply statistical concepts;	✓		✓	✓		
	3	Exhibit proficiency in analyzing data by using appropriate technology for informed decision-making;	✓		✓	✓		
	4	Run appropriate inferential statistical tests to verify hypotheses and formulate data-driven conclusions and decisions;	✓		✓	✓		
	5	Demonstrate proficiency in problem solving by giving appropriate examples that can be solved using descriptive or inferential statistics;	✓		✓	✓		
	6	Perform appropriate parametric or nonparametric test of hypothesis for the particular data.	✓		✓	✓		





XII. Course Outline/Learning Plan

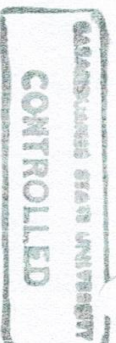
Pos	COs	Desired Learning Outcomes	Course Content/ Subject Matter	Textbooks/ References	Teaching and Learning Activities (TLAs)	Assessment Tasks	Instructional Resources/ Materials	Time Table	
A	1	At the end of chapter I, the students are expected to:	I. INTRODUCTION A. Basic Statistical Concepts and Definitions B. Role of Statistics in Research C. Quantitative Data Collection Methods D. Instrumentation E. Sampling Techniques and Sample Size Determination	<ul style="list-style-type: none"> • Healey, J. F. (2002). <u>Statistics : A Tool for Social Research</u>, 6th Edition. Wadsworth Group, USA • Parreño, E.B. & Jimenez, R.O. (2006). <u>Basic Statistics : A Worktext</u>. Quezon City: C&E Publishing Inc. • Alferez, M.S., Duro, M.C.A. (2006). <u>Statistics and Probability</u>. MSA Publishing House. Cainta, Philippines 	June 13, 2020 (Google classroom) ✓ PowerPoint presentation and lecture notes be sent to the class together with activity worksheets. ✓ Assigned activities be given	<ul style="list-style-type: none"> • Activity sheet • Quiz 	<ul style="list-style-type: none"> • Handouts • PowerPoint Presentation 	5.0 hrs	
C	5	1. Define Statistics and describe the two stages of Statistics 2. Identify basic terms used in Statistics 3. State the importance of statistics in research 4. Distinguish between the four levels of measurement and cite examples of variables from each. 5. Explain the various sampling techniques							June 14, 2020 (face-to-face) ✓ Class Discussion ✓ Work along activities ✓ Checking of activities
D									
A	1	At the end of chapter II, the students are expected to:							
C	3								
D	5	1. Explain the purpose of descriptive statistics in making data comprehensible.							

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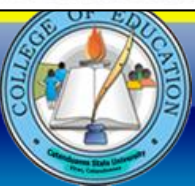
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POS	COS	Desired Learning Outcomes	Course Content/ Subject Matter	Textbooks/ References	Teaching and Learning Activities (TLAs)	Assessment Tasks	Instructional Resources/ Materials	Time Table
A	1	At the end of chapter III, the students are expected to:	III. The Normal Distribution A. Introduction B. The Standard Normal distribution C. Finding areas under the normal curve D. Using the Normal curve to estimate Probabilities	<ul style="list-style-type: none"> McCabe, George P & Moore David S. (1999). Healey, J. F. (2002)... Orris, James B. (2007). 	<ul style="list-style-type: none"> Class Discussion Checking of activities Workshop: Students produce an output of data organized and presented using FDT and Histogram using Ms Excel 	<ul style="list-style-type: none"> Hands-on exercise using Excel 	<ul style="list-style-type: none"> Work-sheets Computer softwares (SPSS, Geogebra, PhStat, MegaStat, MS Excel) 	2.5 hrs
C	3	1. Define and explain the concept of the normal curve.						
D	5	2. Convert empirical scores to z-scores and use z-scores and the normal curve table to find areas above, below						
		2. Construct and analyze frequency distributions table 3. Calculate, explain, compare and contrast the mode, median and mean. 4. Compute and explain the range, the interquartile range, the standard deviation and the variance. 5. Correctly calculate, interpret measures of position. 6. Explain how one can use measures of association to describe and analyze the importance of a relationship						





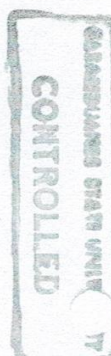
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A	1	At the end of chapter 6, the students are expected to:	IV. One-Sample Hypothesis Test A. Hypothesis Testing B. The Five-Step Model for Hypothesis Testing C. Hypothesis Test for a Single Population Mean (Large and Small Samples)	<ul style="list-style-type: none"> • McCabe, George P & Moore David S. (1999). • Alferez, M.S., Duro, M.C.A. (2006). • Healey, J. F. (2002). 	June 27, 2020 (Google classroom) ✓ PowerPoint presentation and lecture notes be sent to the class together with activity worksheets. ✓ Assigned activities be given June 28, 2020 (face-to-face)	<ul style="list-style-type: none"> • Mini-project 4 • Problem Set • Quiz • Hands-on exercise using Excel 	<ul style="list-style-type: none"> • Power Point Presentation • Statistical tables • Handouts • Computer softwares 	7.5 hrs
C	2	1. Explain the logic of hypothesis testing.						
D	3	2. Define and explain the conceptual elements involved in hypothesis testing, especially the null hypothesis, the alpha level and the test statistic.						
	4	3. Test the significance of single-sample means and correctly interpret the result.						
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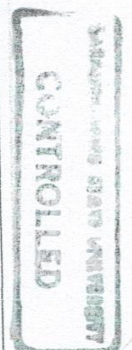


Pos	COs	Desired Learning Outcomes	Course Content/ Subject Matter	Textbooks/ References	Teaching and Learning Activities (TLAs)	Assessment Tasks	Instructional Resources/ Materials	Time Table
A	1	At the end of chapter 8, the students are expected to: 1. Explain how we can use measures of association to describe and analyze the importance of a relationship	VI. Non-Parametric Tests A. Wilcoxon Signed-Rank Test B. Mann-Whitney Test C. Kruskal-Wallis Test D. Spearman Rank Correlation E. Phi coefficient F. Cramer's V coefficient	• McCabe, George P & Moore David S. (1999). • Alferez, M.S., Duro, M.C.A. (2006). • Healey, J. F. (2002).	✓ Checking of activities ✓ Computer Application: Ms Excel	• Problem Set • Seatwork • Quiz • Hands-on exercise	• Power Point Presentation • Handouts • Computer softwares	10 hrs
C	2							
D	3							
	4							
	5							
FINAL EXAMINATION (July 18, 2020)								
					July 11, 2020 (Google classroom) ✓ PowerPoint presentation and lecture notes be sent to the class together with activity worksheets. ✓ Assigned activities be given July 12, 2020 (face-to-face) ✓ Class Discussion ✓ Work along activities ✓ Checking of activities			2.0 hrs





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<p>VII. Suggested Readings and References</p>	<p>A. Books Downie, N.M. and Heath, R.W. (1983). Basic Statistical Methods, 5th Edition. Harper & Row, Publishers, New York Zorilla, Roland S., B.H. Essler, F.G. Partible, V.C. Mendoza and M.K. Cabrera (2011). <u>Statistics: Basic Concepts and Applications</u>. Malabon City: Murya Publishing House, Inc.</p>										
<p>VIII. Course Requirements</p>	<p>A. Quizzes and Major Examinations B. Projects and Problem Sets</p>										
<p>IX. Course Policies</p>	<p>A. Students with reasonable absences from the class will be given consideration for the missed quizzes/examinations upon presentation of duly signed excuse letter. B. Students who incurred absences more than 20% of the required number of hours shall be dropped from the rolls (if incurred before midterm) or will be a candidate to fail the subject (if incurred after midterm exam). C. Submission of projects shall be on or before the due date agreed upon by the students and the faculty. Late submission will earn a grade of not better than 2.0. D. Any form of academic misconduct, including cheating and plagiarism, are strictly prohibited. Students are expected to do their own work and give credit to others as appropriate when they include it in their own work. Students caught doing these acts shall be dealt with in accordance with the provisions in the Student Handbook. E. Cell phone use during classes is strictly prohibited and should be set to non-disruptive setting (silent or, preferably, off). F. Laptops and similar devices may be used for note-taking and approved class-related activities only.</p>										
<p>X. Grading System (Approved per Board Resolution Nos. 3, 4 and 5, s. 2016; dated March 8, 2016)</p>	<table border="1"> <thead> <tr> <th>Criteria</th> <th>Percentage</th> <th>Computation of the Final Grade:</th> </tr> </thead> <tbody> <tr> <td>Written Outputs</td> <td>30%</td> <td rowspan="3">½ (Midterm Grade) + ½ (Tentative Grade)</td> </tr> <tr> <td>Mid-Term /Final Examination Performance</td> <td>40%</td> </tr> <tr> <td>TOTAL</td> <td>100%</td> </tr> </tbody> </table>	Criteria	Percentage	Computation of the Final Grade:	Written Outputs	30%	½ (Midterm Grade) + ½ (Tentative Grade)	Mid-Term /Final Examination Performance	40%	TOTAL	100%
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Written Outputs	30%	½ (Midterm Grade) + ½ (Tentative Grade)									
Mid-Term /Final Examination Performance	40%										
TOTAL	100%										
<p>XI. Consultation Time/Venue</p>	<p>Sunday 7:30 – 1:30 CoEd Faculty Room</p>										

Prepared by:

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Instructor I
Date: 07-08-2020

Reviewed by:

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Approved:

ROSANA S. ABUNDO, Ed.D.
Dean
Date: 7/29/2020

