

## **A. Course: 37:575:250:05 Finance for Personal and Professional Success (Tentative Syllabus) Fall 2015**

**Instructor:** Mary Evans

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**Mailbox:** 50 Labor Center Way, Labor Education Center (LEC)

**Meeting time and Location:** Food and Science Building, room 101. Tuesdays 9:15am to 12:15pm

**NOTE:** For Emergencies **No** Phone calls/ text messages...please email me or you can let me know in class. In the subject of your email, please include your name, the course and the section. Please check your Rutgers email or Sakai online in cause of any class cancellations.

**Office Hours:** Prior to class by appointment, and immediately after classes

**Pre-Requisite:** None

**Course Description:** Overview of core financial concepts and techniques useful both at work and in personal life; budgets, banking, interest, credit, personal loans, insurance, investments, present value; and net worth

### **Overarching Math Philosophy/Objectives Overview: Mathematics of Life:**

Imagine that you are taking a vacation next year. You have many financial choices to make. How big is your vacation budget and how do you want to allocate it? The more money that you save now, the more you will have to spend on your vacation.

Now imagine that you are planning your financial future. You have many choices to make. How will you pay off your student loan? How much of your budget should be allocated to food and utilities? How much can you afford to spend on clothes? Should you buy a house? Should you buy a new car? What investments should you consider? When do you want to retire? All of these decisions require detailed planning.

Financial planning, prudent financial management, and careful spending can help you achieve your financial goals, which affect one's standard of living in the future.

The **financial planning process** enables you to understand the key components of a **financial plan** and to develop a **personal financial plan**. The simple objective of financial planning is to make the **best use of your resources to achieve your financial goals**. The sooner you develop your goals and a financial plan to achieve these goals, the easier it will be to achieve your objectives. Topics in personal finance include financial and career planning, budgeting, tax management, cash management, credit cards, borrowing, major expenditures, risk management, investments, retirement planning and estate planning.

Success in Life. A solid understanding of personal finance topics offers you an increased probability of success in facing life's financial challenges, responsibilities and opportunities. Such successes might include: paying minimal credit costs, not paying too much in income taxes, purchasing automobiles at low prices, financing housing on good terms, buying appropriate and fairly priced insurance, selecting

successful investments that match your needs and tolerance for risk, planning for a comfortable retirement, and passing on your estate with minimal transfer costs.

Basic Mathematical models underlie all these financial analyses. The mathematics behind the time value of money can be applied to determining how much **current** savings will be worth in the **future**, or how to reach your goal of saving for a house or starting a business. If you were to win the lottery, should you take the lump sum or annual payments (annuity). If you have to invest, how do you know what is a good return? How much does a credit card really cost? How much money do you need for retirement? Debt also grows through mathematical models. There are tax implications as well.

Critical thinking plays a major role in financial analysis, as there may be more than one way to accomplish a goal. For example, if you decide to reduce your housing expenses you can, for example, either move to a cheaper unit and/or take in a room-mate. If you're saving for retirement, and can't save enough each month to meet your goal; consider alternatives such as: later retirement, reducing current or future expenses, or investing differently.

The measures of performance in this class will be referred to as authentic assessments. That is, student performance is evaluated based upon realistic life decision assignments, including:

- a series of math problems,
- an ongoing case analysis,
- course projects, such as assessing a lease and managing stocks in the stock market; planning for retirement planning using the time value of money; finding the best bank to fit your needs,
- Excel applications; one project applies the Pareto Principal (80:20 Rule) to tracking your frivolous expenditures (non obligations of rent or mortgage, insurance, etc.) using Excel.
- developing your personal financial plan.

This is in sharp contrast to the types of assessments based on multiple choice, short answer, etc. in a timed environment. Clearly this type of assessment will provide the student the same type of environment as s/he will have during his/her life.

### **Relationship to SAS Learning Objectives:**

• **Goal x** (Apply effective and efficient mathematical or other formal processes to reason and to solve problems.) Specifically the focus is on the mathematics underlying the process of investment, and borrowing/ saving money. The student will learn to apply concepts from algebra necessary to specify and solve equations related to loans, savings, mortgage, credit and insurance using compound interest.

• **Goal w** (Formulate, evaluate, and communicate conclusions and inferences from quantitative information)

### **Other Learning Objectives:**

- Familiarize students with core concepts of interest, present value, risk, diversification, and insurance,
- Improve student skills in using spreadsheets and other tools in common use for analyzing financial information, and
- Introduce students to major types of financial instruments including stocks, bonds, mutual funds, and to investments in real estate.

**Assessment of Learning Objectives:** Project assessments will be used to evaluate these objectives.

**Text - Required:** Madura, J., **Personal Finance**, Pearson-Addison/Wesley, **5e**, Fifth Edition: - Barnes and Noble has the 5e in stock. The ISBN for 5e is 978-0-13-299434-7. The fourth edition can also be used: ISBN: 4e, 978-0-13-611700-1

**NOTE:** Although, there is a copy of the 4e of the text is on reserve at the Chang Library on the Cook/Douglass Campus, it is only allowed to be borrowed for a max of 2 hours at a time. Also, there are 6 other sections of the course being given, do not rely solely on the availability of the copy at the library. ORDER or RENT your own copy ASAP.

#### Third Edition/Version of the Text vs. Fourth/Fifth

Please note that if you choose to purchase the 3e of the text, there are significant differences. **The problems have changed in all chapters.** The content of the 3e and 4e appears to be the same except for one point. A new chapter had been added to Part 5, Personal Investing. Thus, you may use the 3e of the text with the understanding that the numbering of the chapters, starting with Chapter 15, is decremented by one in the 4/5e of the text.

Per the following for example, the chapter on bonds is as follows:

Version 3	Version 4/5
Ch. 17	Ch. 16

International Edition - Although the International version is much more affordable, you should NOTE that the international version will take much longer to be delivered, please make sure to order it WELL in advance. DO NOT WAIT FOR THE FIRST WEEK OF CLASS! It will take you over a month to receive it! You will need the text book immediately. ALSO, the questions in the International version may differ from the textbook used in class.

Others - MATLAB is not required. The CD is not needed.

**Text – Recommended (Optional):** Dworsky, L. N., **Understanding the Mathematics of Personal Finance**, Wiley, 2009, ISBN 978-0-470-49780-7.

**Required:** Statistical software in Excel 2003 (or higher) and the text CD are included in the course, which is required for homework, related cases, and team assignments. Reading assignments must be completed prior to each lecture. Communication Devices: No communication devices (cell phones, palm pilots, beepers, pagers, etc.) can be used in the classroom.

**Academic Integrity:** All students are responsible for locating, reading, and abiding by the University Policy on Academic Integrity for Undergraduate and Graduate Students. The policy is available on-line at <http://cat.rutgers.edu/integrity/policy.html>

**Recommendations:** Requests for recommendations must be made in writing after completion of the course.

#### **Communication:**

##### **1. NETID Needed**

Rutgers uses the Sakai system. In order to use this system, you must have a NETID and PW. A NETID is an account on one of the main systems at Rutgers (Pegasus, Eden, Andromeda or RCI).

- **If you have a NETID**, you can currently ensure that you will be able to login to the system.

- **If you do not have a NETID**, please use the following page to attain one: <http://netid.rutgers.edu/>
- **If you have any problems**, please contact your local RUCS Help Desk. You can reach them at [help@nbc.rutgers.edu](mailto:help@nbc.rutgers.edu) or 732-445-Help

## 2. **Sakai**

To facilitate class learning, please access and print course documents needed for class from the course management system known as Sakai. Course documents are posted in folders under Resources.

### **Quick Start for Sakai:**

<https://sakai.rutgers.edu/access/content/public/quickmember.html>

### **Sakai website:**

<http://sakai.rutgers.edu/portal>

If you do not see this course listed, then the site is likely in the “More” dropdown box to the right of your tabs. You can rearrange the order of your sites or hide sites from previous semesters by using the Preference tool in My Workspace and clicking on the “Customize Tabs” action button.

### **Student E-Mail and Phone Numbers:**

a. A student can forward mail from his/her Eden/Pegasus address to a preferred e-mail address. Go to <http://www.eden.rutgers.edu/tools.php> and click on forwarding. Enter your NetID and PW. Then fill in your preferred e-mail address.

**Cautions:** Hotmail has problems with e-mails with attachments. Also, some corporations spam e-mails with attachments.

- If you have any problems, please contact your local RUCS helpdesk at [help@nbc.rutgers.edu](mailto:help@nbc.rutgers.edu)

b. Students, also, have the responsibility to then inform the professor of any changes to their phone numbers (day and evening). Please use “**37:575:250:05**” in the Subject section to avoid being spammed. **Please sign your full name in all e-mail correspondence.**

c. Please check your e-mail regularly, especially on the day of class, to learn if there are any changes in the class schedule, class requirements, or for other general announcements.

**Study Groups:** Forming study groups will facilitate learning by keeping you focused, involved, and current in the course. In this type of course, Student who have formed study groups tend to do better than students who work alone. They have a better understanding of the material, can talk it over and catch mistakes that each person makes. I highly encourage you to form your own study group.

**Classroom Etiquette:** Common courtesy is expected at all times.

**Parking Impacts:** Special events may impact parking.

**University/Campus Closings:** 732-932-INFO (New Brunswick); <http://campusstatus.rutgers.edu>

**Special Needs** – Rutgers, the State University of New Jersey abides by the Americans with Disabilities Act of 1990, the Americans with Disabilities Act Amendments (ADAA) of 2008, and Sections 504 and 508 which mandate reasonable accommodations be provided for qualified students with disabilities and accessibility of online information. If you have a disability and may require some type of instructional accommodation, please contact me early in the semester so that I can provide or facilitate in providing accommodations you may need. If you have not already done so, you will need to register with the Office of Disability Services, the designated office on campus to provide services for students with disabilities. The Office of Disability Services is located in the Kreeger Learning Center, 151 College

Ave, 732-932-2848. I look forward to talking with you soon to learn how I may be helpful in enhancing your academic success in this course.

**Assessments:** This class is hands-on and features assessment of projects and assignments, rather than a lecture course that uses exams to assess learning. Course assessment is calculated as a weighted average of the following projects.

GRADING COMPONENTS			
		EACH	TOTAL PER COMPONENT
<b>TAKE HOME EXAMS</b>	TAKE HOME 1, TAKE HOME 2, TAKE HOME 3	13.33% EACH	<b>40%</b>
<b>NOTE: THERE ARE NO MAKE UPS FOR TAKE HOME EXAMS. A 10% PER DAY LATE PENALTY WILL BE APPLIED FOR ALL LATE ITEMS. AFTER 1 WEEK LATE, SUBMISSION WILL NOT BE ACCEPTED FOR THAT LATE ITEM.</b>			
<b>QUIZZES</b>			<b>5%</b>
	QUIZ 1	2.5%	
	QUIZ 2	2.5%	
<b>PROJECTS</b>			<b>20%</b>
	VISION BOARD	1.5%	
	BUDGETS, STATEMENTS,	1.5%	
	OUT-OF-POCKET EXPENSE TRACKER	1.5%	
	BANKING PROJECT	1.5%	
	ANNUAL CREDIT REPORT AND IDENTITY THEFT ASSESSMENT	1.5%	
	PARETO	1.5%	
	COSTS NEEDS ANALYSIS	1.5%	
	RISK TOLERANCE	1.5%	
	LIFE EXPECTANCY	1.5%	
	RETIREMENT PLANNING	1.5%	
	CASE STUDY 1	1.5%	
	CASE STUDY 2	1.5%	
	CASE STUDY 3	2.0%	
<b>GROUP PRESENTATIONS</b>			<b>5%</b>
<b>GUEST SPEAKERS</b>	<b>VARIES</b>		<b>5%</b>
<b>PERSONAL FINANCIAL PLAN</b>	<b>DUE DEC 8TH, 11:55PM</b>		<b>25%</b>
		<b>TOTAL</b>	<b>100%</b>

<b><u>Personal Financial Plan</u></b>	Max possible points earned
Grading rubric	
On-time (no exceptions made)	10%
5 pages (single spaced) or 10 pages double spaced... <b>Minimum <u>written</u> material.</b> (maxium font of Times New Roman 14)	10%
<b>Appendix:</b> Charts, budgets, income statements or balance sheets, computations, pictures, etc... (should be located at the end of the Personal Financial Plan paper)	5%
Current situation (what is your story and how does it affect your current financial situation?) and Goals (Short term , intermediate, long term)	5%
Budgeting, Savings plan (It would be helpful to have charts or visuals)	5%
Banking	5%
Taxes (current and future)	5%
Personal Loans (auto, home, education, business, etc...)	5%
Credit cards (managing and assessment of credit )	5%
Identity theft (preventing)	5%
Insurance (life and medical, how much do you need? Supplemental insurance outside of employment)	5%
Insurance (auto or home)	5%
Healthcare planning (long term care, health directive)	5%
Investing ( risk tolerance, asset allocation, diversification, asset classes, portfolio, timed goals)	5%
Retirement planning ( 401k, IRAs, ROTHs, life expectancy, saving for retirement, retirement income, inflation, Medicare, Medicaid, social security, long term care)	5%
Estate planning ( wills, trusts, power of attorney, trustees, executor, beneficiary, insurance benefits, retirement account benefits, Paid-upon-death accounts, joint tenants, exclusions of persons in Wills, probate, intestate)	5%
What you learned from class and are applying to your life, guest speakers	5%
Back-up plans and overcoming future obstacles	5%
<b>TOTAL</b>	<b>100%</b>

## In-Class Projects: Ethical Dilemma, films, etc.

<p><b>Target Week</b></p>	<p><b>Proposed Chapter Series</b>  <b>Notes: Guest lecturers may result in modifications to the schedule.</b> As a <b>COURTESY</b> to our guest lectures, please turn off all laptops and communication devices.</p>
<p>#1 Sept 1</p>	<p><b>Syllabus, Course expectations, layout</b></p> <p><b>Chapter 1 (Overview of a Financial Plan); Excel</b></p> <ul style="list-style-type: none"> <li>• Components and Developing a Financial Plan</li> <li>• Excel spreadsheets, graphics and financial applications</li> <li>• Pre-Assessment of Financial Literacy</li> <li>• <b>goal setting (short-term, intermediate-term, and long-term)</b></li> </ul> <p><b>In class:</b></p> <ul style="list-style-type: none"> <li>• <b>Bucket List</b></li> <li>• <b>Opportunity cost (how much does it cost to miss a class)</b></li> <li>• <b>Case study question</b></li> <li>• <b>Intro to Out of Pocket tracking project</b></li> </ul> <p><b>Due next class: Vision Board presentations;</b></p>
<p>#2 Sept 15</p>	<p><b>Chapter 2 (Planning with Personal Financial Statements Factors that affect cash flows; creating a budget)</b>  <i>Discussion of tradeoffs regarding: What's it worth to reduce my spending and understanding the Latte Factor</i></p> <p><b>In Class:</b>  <i>Vision Board Presentations</i></p> <ul style="list-style-type: none"> <li>• <b>Savings Plan, Cash inflow/Cash outflow, Balance Statements</b></li> <li>• <b>Picking Groups and Presentation dates</b></li> <li>• <b>Intro to Pareto</b></li> </ul> <p><b>Due next week: budgets, goals and balance sheets</b></p>
<p>#3 Sept 22</p>	<p><b>Chapters 3 (Applying Time Value Concepts)</b></p> <ul style="list-style-type: none"> <li>• Future and present value of a single dollar amount</li> <li>• Future and present value of an annuity</li> <li>• Rule of 72</li> <li>• Simple interest</li> <li>• Compounding interest</li> </ul> <p><i>To be a millionaire, how long would it take with different rates of savings and rates of return, etc...</i></p> <p><b>Due next by next week: Out-of-pocket Project and Case study 1</b></p>
<p>#4 Sept 29</p>	<p><b>Chapter 4 (Tax planning)</b></p> <ul style="list-style-type: none"> <li>• W-2, 1040ez, 1040</li> <li>• Filing status</li> <li>• Adjusted Gross Income</li> <li>• Tax Liability</li> </ul> <p><b>Due next week: Take Home Exam 1 and Pareto project</b></p>
<p>#5 Oct 6</p>	<p><b>Chapters 5 (Banking and Interest Rates) and chapter 6 (Managing Your Money)</b>  Types of financial institutions and their services; Interest rates; Money market investments and their risk  <i>How to choose a bank, with given minimum deposits, balances, monthly fees, check-writing charges?  How do you evaluate choosing between two CDs?  How much do you need to save to purchase a car?  How should you plan to purchase a condo?</i></p> <p><b>Due next week: Bank comparison of your area.</b>  <b>Go to Sakai--&gt;Assignment tab--&gt; Banking project -&gt;Follow instructions</b></p>



<p>#6 Oct 13</p>	<p><b>Chapters 7 (Assessing and Securing Your Credit) and 8 (Managing Your Credit)</b></p> <p>Credit cards; dealing with credit debt <i>Evaluate your preparedness to defend against identify theft</i></p> <p><b>Due next class: Identity theft Assessment Project,</b></p>
<p>#7 Oct 20</p>	<p><b>Chapters 9 (Personal Loans) and 10 (Purchasing and Financing a Home)</b></p> <p>Evaluation of personal loans, auto loans and 30-year mortgages Evaluate what you can afford to borrow to finance the purchase of a home Valuation of a home <i>How much can I borrow?</i></p> <p><b>DUE next class: Annual credit report and Case study 2</b> <a href="http://www.annualcreditreport.com">www.annualcreditreport.com</a></p>
<p>#8 Oct 27</p>	<p><b>Chapters 11 (Auto and Homeowner's Insurance),</b></p> <p>Managing risk; factors that affect auto insurance premiums; homeowner's and renter's insurance</p> <p><b>Due next class: Take home exam 2</b></p>
<p>#9 Nov 3</p>	<p><b>12 (Health and Disability Insurance), Chapters 13 (Life Insurance)</b></p> <p><i>What insurance should I have? Types of life insurance and determining the amount of life insurance needed</i> <i>How much life insurance do I need?</i></p> <p><b>Due next class: : Life Expectancy Project and Capital Needs analysis project</b> <a href="http://www.insurancebrokerageamerica.com/capital-needs-analysis-calculator.html">http://www.insurancebrokerageamerica.com/capital-needs-analysis-calculator.html</a></p>
<p>#10 Nov 10</p>	<p><b>Chapter 14 (Investing Fundamentals), Chapters 15 (Investing in Stocks) and 16 (Investing in Bonds).</b></p> <p><i>How do my investment decisions impact my wealth?</i> Types of investments; tradeoffs between return and risk Risk tolerance Analyzing the firm's annual report; industry analysis of stocks; stock valuation (Price-earnings method and price-revenue method) Stock Exchanges; purchasing or selling stocks; buying stock on margin and assessing performance of stock investments <i>What stocks meet my criteria? How do I compare and contrast them?</i> <i>How do I assess analysts' comments and earnings estimates?</i> Types of bonds; valuing a bond; risk from investing in bonds; bond investment strategies Type of mutual funds; return and risk of a mutual fund <i>How do the purchase of bonds impact my protecting of assets and income, as well as my retirement?</i> <i>How do I select mutual funds that best meet my individual financial goals?</i></p> <p><b>Due next class: Risk Tolerance assessment and Case study 3</b></p>
<p>#10 Nov 17</p>	<p><b>Chapters 17 (Investing in Mutual Funds), Chapter 18 ( Asset Allocation)</b></p> <p>How diversification reduces risk; strategies for diversifying; asset allocation strategies; factors that affect your asset allocation decision <i>Is my asset allocation conservative, moderate or aggressive?</i></p> <p><b>Chapter 19 (Retirement Planning)</b> <b>Possible guest speaker on retirement and estate planning</b></p>

	<p>Social Security; employer-sponsored retirement plans (defined-benefit and defined-contribution plans)  Retirement plans offered by employers; Keogh Plan, SEP, IRAs, etc.  <i>How do my savings decisions and what types of plan(s) contribute to impact my retirement?</i></p> <p><b>Due next class: TAKE HOME 3 and Retirement Calculator project</b></p>
<p>#11  Dec 1</p>	<p><b>Chapter 20 (Estate Planning)</b>  Purpose of a will; estate taxes; trust, gifts, and contributions  <i>What key events and changes in my assets impact the review and change of my will?</i></p> <p><b>Chapter 21 (Integrating the Components of a Financial Plan)</b>  Budgeting, managing liquidity; personal financing; protecting your assets and income;  managing investments; retirement planning; maintaining your financial documents  <i>How can I further improve my financial health?</i></p> <p><i>In class Financial Literacy assessment</i></p>
<p>#12 Dec 8th</p>	<p><b>PERSONAL FINANCIAL PLAN DUE By Dec 8th 11:55pm</b></p>