# Introduction to MBA Elective Course Priority Registration

#### Marriott School of Management Brigham Young University

rev. 10/15/2014, 3/12/2012, 10/13/2011

#### Overview

The MBA office has decided that after years of complaints from students they will revise the course registration system to avoid...

- students staying up till midnight...
- with three web browsers open at the same time...
- typing as fast as they can!
   Instead, providing a fairer priority registration system based on student preferences.







#### Basics of the priority registration system

- Course bidding system.
- Students rank courses.
- Students allocate "points" to each class.
- Points spent on courses in one round will not be available in subsequent rounds.

Lets see how it will work...

#### Give it a try

Go to...

http://services.byu.edu/mba

Enter BYU NetID and password

#### You should see something like this...

Preferred electives for Matt Walsman. [logout]

This system allows you to indicate your preferences for elective courses. Although we cannot guarantee enrollment in any courses, providing your thoughtful preferences will help us do the best we can.

- 1. Scroll down to select courses from the list at the bottom.
- 2. Adjust the ranking of your selections, putting your most desired course at the top.
- 3. Assign bid points as desired. You currently have 1000 points to bid. You can bid up to 1000 for each selected elective (thus the total points can be greater than 1000).
- 4. Bidding will take place in multiple rounds. Each student gets only one course each round.
- 5. In each round we will try to meet your top-ranked choice. If the course becomes full, students bidding more points will get in first.
- 6. If we are unable to place you in your top-ranked choice, we will attempt to place you in your second choice, and so forth. (That is why it is good to includes some alternatives on your list.)
- 7. In a given round, if the course you are enrolled in becomes full then for each student who gets into the course that round we will be deducted the number of points of the first student who did NOT get into the course.
- 8. In a given round, if the course you are enrolled in does not become full, we will not deduct any of your points.
- 9. Any points left over after the first round can be used in subsequent rounds.
- 10. After each round your are free to change your list or bid points if you choose to do so.

# Courses you are already enrolled in You are not yet enrolled in any courses. Courses you would like to be enrolled in

Rank	Prefered electives for Matt Walsman	Bid Points
	No courses selected yet for Matt Walsman. (Add courses to your list by selecting courses below.)	

# Read the instructions. Give it a try.

# How the system works

#### MaxBid points

### eBay Automatic Bidding annthecan gets it for \$21!

eBay bidder	Maximum Bid
annthecan	\$25.50
bobdog	\$20.01
carl934	\$20.00
deb_idaho	\$18.00



Auto bid (\$1 increment)

\$29

# MBA Priority registration **Highest "not in" MaxBid = 500**

MBA student	MaxBid points
Ann	800 in cost=500
Bob	501 in cost=500
Carl	500 not in
Deb	300 not in







#### Why use a MaxBid auction?

Called "generalized second-price auction"
Based on "Vickrey auction"

Let  $v_i$  be bidder i's value for the item. Let  $b_i$  be bidder i's bid for the item.

#### Gory details...

- The system tries to get you in your top ranked class per round, based on demand and how many MaxBid points you allocated.
- If you fail to get into your first choice in a particular round then your subsequent choice moves up.
  - However, your subsequent choice is still subject to your specified MaxBid points.
- The cost of getting into a class is the greater of:
  - the minimum-bid amount (100 points)
  - the bid of the first student who did NOT get into that course
- You will get one and only one class each round (unless your preference list runs dry).
- Let's look at an example...

These are the electives:

Available Courses	Seats
MBA 101	2
MBA 102	2

Ann wants these classes:

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	500

Bob wants these classes:

Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600



Two rounds of priority registration...

Round 1

Ann gets in MBA 101 Bob gets in MBA 102

Round 2

Ann gets in MBA 102 Bob gets in MBA 101

Available Courses	Seats
MBA 101	2
MBA 102	2

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	500

Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600

Four students.

Available Courses	Avail Seats
MBA 101	2
MBA 102	3

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	500
	Poh'o	Did

Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600

Rank	Carl's Choices	Bid Points
1	MBA 101	700
2	MBA 102	350

Rank	Deb's Choices	Bid Points
1	MBA 101	500
2	MBA 102	300

Available Courses	Avail Seats
MBA 101	<b>※</b> X0
MBA 102	<b>X</b> 2

#### • First round:

Rank	Bid	Choice	Who
1	800	MBA 101	Ann
1	700	MBA 101	Carl
1	600	MBA 102	Bob
1	550	MBA 101	Deb
2	600	MBA 101	Bob
2	500	MBA 102	Ann
2	350	MBA 102	Carl
2	300	MBA 102	Deb

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	500
Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600
Rank	Carl's Choices	Bid Points
Rank 1		
	Choices	Points
1	Choices MBA 101	Points 700
1	Choices MBA 101 MBA 102	700 350
1 2	Choices  MBA 101  MBA 102  Deb's	Points 700 350 Bid

Evample #2

Deb did not get in MBA 101, so the cost of MBA 101 in round 1 is 550 points.

Available Courses	Avail Seats
MBA 101	<b>※</b> X0
MBA 102	for roun

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	<b>800</b> 450

		Choice		Who
2	<	MBA 101	>	Ann
70	<	MBA 101	>	Carl
600	<	MBA 102	>	Bob
550	<	MBA 101	>	Deb
600		MBA 101		Bob
150 <b>%</b> 000		MBA 102		Ann
350		MBA 102		Carl
300		MBA 102		Deb
	600 550 600 50 <b>88</b> 8	70 600 550 600 50880 350	MBA 101 70 MBA 101 600 MBA 102 550 MBA 101 600 MBA 101 MBA 101 MBA 102 MBA 102 MBA 102 MBA 102	70 MBA 101 600 MBA 102 550 MBA 101 600 MBA 101 50800 MBA 102 350 MBA 102

Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600

	Rank	Choices	Points
	1	MBA 101	700
for round	2	MBA 102	350 <mark>ok</mark>

Rank	Deb's Choices	Bid Points
1	MBA 101	550
2	MBA 102	300

Evample #2

Deb's second ranked course now becomes her first ranked course...

Available Courses	Avail Seats
MBA 101	<b>※</b> ¥0
MBA 102	<b>X</b> 2

	ık	Bid		Choice		Who
		800	<	MBA 101	>	Ann
		700	<	MBA 101	>	Carl
		600	(	MBA 102	>	Bob
		550	<	MBA 101	>	Deb
		600		MBA 101		Bob
\	4	150 <b>%</b> 000		MBA 102		Ann
2		350		MBA 102		Carl
2	1	300		MBA 102		Deb

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	<b>XXX</b> 450
Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600
Rank	Carl's Choices	Bid Points
1	MBA 101	700
2	MBA 102	350 <mark>ok</mark>
Rank	Deb's Choices	Bid Points
1	MBA 101	550
2	MBA 102	300

And the list is resorted by rank and bid points.

Available Courses	Avail Seats
MBA 101	<b>≥</b> X0
MBA 102	<b>XX</b> 1

nk	Bid	Choice	Who
	800	MBA 101	Ann
1	700	MBA 101	Carl
1	600	MBA 102	Bob
<sup>V</sup> 1	550	MBA 101	Deb
<del>2</del> 1	300 <	MBA 102	Deb
2	600	MBA 101	Bob
2 4	450 <b>%</b>	MBA 102	Ann
2	350	MBA 102	Carl

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	<b>XXX</b> 450
Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600
Rank	Carl's Choices	Bid Points
1	MBA 101	700
2	MBA 102	350 <mark>ok</mark>
Rank	Deb's Choices	Bid Points
1	MBA 101	550
2	MBA 102	300

Available	Avail
Courses	Seats
MBA 101	<b>※</b> ※0

**XX**1

MBA 102

First round:

Round 1 over. MBA 102 dis not fill up so cost to get in 102 is 100 points.

капк	Ria	Cnoice	vvno
1	800	MBA 101	Ann
1	700	MBA 101	Carl
1	600	MBA 102	Bob
1	550	MBA 101	Deb
<del>2</del> 1	300 <	MBA 102	Deb
2	600	MBA 101	Bob
2 4	150 <b>%000</b>	MBA 102	Ann
2	350	MBA 102	Carl

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	<b>XXX</b> 450
Rank	Bob's Choices	Bid Points
1	MBA 102	600
2	MBA 101	600
Rank	Carl's Choices	Bid Points
1	MBA 101	700
2	MBA 102	350 <b>ok</b>
	Deb's	Bid
Rank	Choices	Points
1	MBA 101	550
2	MBA 102	300

Available Courses	Avail Seats
MBA 101	<b>※</b> ※0
MBA 102	<b>XX</b> X0

#### Second round:

Rank	Bid	Choice	Who
1	800	MBA 101	Ann
1	700	MBA 101	Carl
1	600	MBA 102	Bob
1	550	MBA 101	Deb
<del>2</del> 1	300	MBA 102	Deb
2	600	MBA 101	Bob
2 4	450 <b>%</b>	MBA 102	Ann
2	350	MBA 102	Carl

Rank	Ann's Choices	Bid Points
1	MBA 101	800
2	MBA 102	<b>XXX</b> 450
	Bob's	Bid
Rank	Choices	Points
1	MBA 102	600
2	MBA 101	600
	Carl's	Bid
Rank	Carl's Choices	Bid Points
Rank 1		
	Choices	Points
1	Choices MBA 101	Points 700
1	Choices MBA 101 MBA 102	700 350 ok
1 2	Choices  MBA 101  MBA 102  Deb's	Points 700 350 ok Bid

#### Remember...

- Course requests are considered in rank order.
- High bidders will get in courses first.
- The cost getting into a class is the greater of:
  - the minimum-bid amount (100 points)
  - the bid of the first student who did NOT get into that course
- Any unused points get returned for subsequent rounds.
- You will have opportunities to adjust your points after each round, <u>but do not need to</u>.

#### If you want to participate...

- 1. Log in at http://services.byu.edu/mba
- 2. Select and rank your desired courses, assigning MaxBid points, before the priority registration date.
- 3. Log out.

The actual MBA priority registration will take place in 151 TNRB on that date.

- All MaxPid points enter a los ethatere all tros equal consider (1) (n 0 : 0) e la cons
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#### If you not want to participate...

Regular MBA registration reportedly begins the Monday following at 12:00am.

However, MBA Electives will require a registration flag for the first week of registration.

Registration flags will be given to students with winning bids from priority registration.

After the first week of registration, any student can vie for any available space in MBA courses.

Students with registration flags must use them the first week of registration, or lose the advantage.

#### Frequently Asked Questions

- What is keeping me from bidding 1000 for every course and seeing what the market dictates?
- Answer: Nothing. You may bid 1000 points every round but you do so at a risk. If all 1000 points are required to get a course you will not have any remaining points for subsequent rounds.

#### Frequently Asked Questions

- What if many students bid the same amount for a course and the course fills up? Who gets in the course?
- Answer: Each round the students are given a tiebreak ordering. Those students with a higher tiebreak will get in that course. The tie-break ordering is re-generated every round.

#### Frequently Asked Questions

- What if there are two sections of a course, but I only want to get in one of the two?
- Answer: If you put two sections of the same course on your preference list, as soon as you are granted one of the sections the other section will <u>automatically</u> be excluded from your list.
- This does not apply to MBA 693R classes, where the "R" means repeatable. (You can take multiple 693R class in a given semester.)

# Questions?